



## DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Activity No.: PER20070001

Agency Interest No. 152139

Ms. C. Jean Bustard  
Chief Operating Officer  
ADA-ES, Inc.  
8100 South Park Way, Unit B  
Littleton, CO 80120

RE: Initial Part 70 Air Operating Permit, Red River Environmental Products, LLC  
Activated Carbon Facility, Armistead, Red River Parish, Louisiana

Dear Ms. Bustard:

This is to inform you that the initial Title V permit for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the \_\_\_\_ of \_\_\_\_\_, 2013, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this \_\_\_\_\_ day of \_\_\_\_\_, 2008.

Permit No.: 2420-00027-V0

Sincerely,

Chuck Carr Brown Ph.D.  
Assistant Secretary  
CCB:slp  
c: EPA Region VI

**ENVIRONMENTAL SERVICES**

: PO BOX 4313, BATON ROUGE, LA 70821-4313

P:225-219-3181 F:225-219-3309

WWW.DEQ.LOUISIANA.GOV

**PUBLIC NOTICE**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)**  
**RED RIVER ENVIRONMENTAL PRODUCTS, LLC**  
**GREENFIELD ACTIVATED CARBON MANUFACTURING FACILITY**

**PUBLIC HEARING AND REQUEST FOR PUBLIC COMMENT**  
**ON THE PROPOSED INITIAL PART 70 AIR OPERATING AND**  
**PREVENTION OF SIGNIFICANT DETERIORATION (PSD) PERMITS**  
**& THE ASSOCIATED ENVIRONMENTAL ASSESSMENT STATEMENT**

The LDEQ, Office of Environmental Services, will conduct a public hearing to receive comments on the Initial Part 70 Air Operating and Prevention of Significant Deterioration (PSD) Permits and the Associated Environmental Assessment Statement (EAS) for Red River Environmental Products, LLC a subsidiary of ADA-ES, Inc., 8100 South Park Way, Unit B, Littleton, CO 80120 for the Activated Carbon Manufacturing Facility. The facility is to be located approximately one-half mile west of Armistead on the south side of Parish Road 604, Armistead, Red River Parish.

The hearing will be held on Tuesday, January 22, 2008, beginning at 6:00 p.m., at the Coushatta City Hall Council Meeting Room, 1211 East Carroll Street, Coushatta, LA 71019. During the hearing, all interested persons will have an opportunity to comment on the proposed permits and the Associated Environmental Assessment Statement (EAS).

Red River Environmental Products, LLC requested an Initial Part 70 Air Operating Permit and a Prevention of Significant Deterioration (PSD) Permit for their Greenfield Red River Environmental Products Activated Carbon Manufacturing Facility.

Red River Environmental Products, LLC will be a major source under the PSD program, LAC 33:III.509. The construction of the Greenfield Activated Carbon Manufacturing Facility will result in significant emissions of the following pollutants: particulate matter (PM/PM<sub>10</sub>), sulfur dioxide (SO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), volatile organic compounds (VOC), and sulfuric acid mist (H<sub>2</sub>SO<sub>4</sub>). Therefore PSD requirements, including best available control technology (BACT) apply. The selection of BACT was based on a top down approach; a more thorough discussion of the BACT selection process can be found in the proposed permit PSD-LA-727.

Per 40 CFR 60.6(f) and LAC 33:III.507.I, permit shields have been determined for the proposed permit. Compliance with the PSD-LA-727 permit and NSPS, 40 CFR Part 60, Subpart Db, including the monitoring, recordkeeping and reporting requirements of Subpart Db, constitutes compliance with LAC 33:III.Ch.15, including operations during periods of startup, shutdown, and malfunction. Both the PSD permit and the NSPS requirements are federally applicable requirements that are more stringent and overlapping with the Ch. 15 requirements. Compliance with the PSD limits ensures that the unit achieves Best Available Control Technology ("BACT") and New Source Standards which are more stringent than the Reasonably Available Control Technology requirements of Ch. 15.

This permit was processed as an expedited permit in accordance with LAC 33:I.Chapter 18.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Emissions in tons per year</u>
PM <sub>10</sub>	423.9
SO <sub>2</sub>	638.2
NO <sub>x</sub>	677.2
CO	329.8
VOC <sup>1</sup>	314.7
<sup>1</sup> Toxic VOC included in Totals	0.033
Toxic Non-VOC compounds	35.22

Toxic compounds include the following compounds that are above the Minimum Emission Rate (MER) listed in LAC 33:III Chapter 51. Table 51.1: Barium & barium compounds - 0.785 tpy, Chromium VI & chromium VI compounds - 0.048 tpy, Copper & copper

compounds – 0.024 tpy, Manganese & manganese compounds – 0.145 tpy, Mercury & mercury compounds – 0.022 tpy, Nickel & nickel compounds – 0.025 tpy.

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

All interested persons will be afforded the opportunity to comment on the proposed Initial Part 70 Air Operating Permit, Initial Prevention of Significant Deterioration (PSD) Permit, Statement of Basis and the EAS.

The EAS submitted by the applicant addresses avoidance of potential and real environmental effects, balancing of social and economic benefits against environmental impact costs, and alternative sites, projects, and mitigative measures.

Written comments or written requests for notification of the final permit decision regarding this permit action may also be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests for notification must be received by 12:30 p.m., Monday, January 28, 2008.** Written comments will be considered prior to a final permit decision.

LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The Initial Part 70 Air Operating and Prevention of Significant Deterioration (PSD) Permits and Statement of Basis are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5<sup>th</sup> Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). **The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at [www.deq.louisiana.gov](http://www.deq.louisiana.gov).**

An additional copy may be reviewed at the Red River Parish Library, 2022 Alonzo Carroll, Coushatta, LA 71019.

Previous notices have been published in the Coushatta Citizen on Thursday, August 16, 2007.

Individuals with a disability, who need an accommodation in order to participate in the public hearing, should contact Ms. Laura Ambeau at the above address or by phone at (225) 219-3277.

Inquiries or requests for additional information regarding this permit action should be directed to Mr. Sam Phillips, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3114.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at [deqmailrequest@la.gov](mailto:deqmailrequest@la.gov) or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

**Permit public notices including electronic access to the proposed permit and statement of basis can be viewed at the LDEQ permits public notice webpage at <http://www.deq.louisiana.gov/apps/pubNotice/default.asp> and general information related to the public participation in permitting activities can be viewed at [www.deq.louisiana.gov/portal/tabid/2198/Default.aspx](http://www.deq.louisiana.gov/portal/tabid/2198/Default.aspx).**

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at [www.doa.louisiana.gov/oes/listservpage/ldeq\\_pn\\_listserv.htm](http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm).

**All correspondence should specify AI Number 152139:  
Permit Numbers: 2420-00027-V0 and Activity Number PER20070001  
PSD-LA-727 and Activity Number PER20070002.**

**Scheduled Publication Date: December 13, 2007**

**AIR PERMIT BRIEFING SHEET  
AIR PERMITS DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**RED RIVER ENVIRONMENTAL PRODUCTS, LLC  
AGENCY INTEREST NO.: 152139  
ARMISTEAD, RED RIVER PARISH, LOUISIANA**

**I. Background**

Red River Environmental Products, LLC (RREP) is submitting an application to the Louisiana Department of Environmental Quality (LDEQ) for a construction and Part 70 operating air permit for a greenfield activated carbon (AC) manufacturing facility in Red River Parish. ADA-ES, Inc., the owner of RREP, has demonstrated that AC is effective at removing mercury emitted by power plants.

This is the initial Part 70 operating permit and includes initial Permit Number PSD-LA-727.

**II. Origin**

A permit application and Emission Inventory Questionnaire were submitted by ADA-ES, Inc. on August 2, 2007, requesting an initial Part 70 operating permit. Additional information was received on August 20, 2007, October 3, 2007, and November 2, 2007.

**III. Description**

RREP is proposing to construct a greenfield facility dedicated to the production of AC, to enable the power generation industry to meet their impending mercury emission control requirements. The facility will use coal as a feedstock in the AC manufacturing process. The proposed site is adjacent to an active coal mine. The facility will consist of dual production lines; each line will have a production capability of roughly 175 million pounds of AC per year.

Carbon is typically activated by either steam or chemical treatment; RREP will be employing the steam activation process for the proposed Project. Steam activation involves two steps: carbonization and activation. Carbonization involves the conversion of the raw material (such as coal) into a disordered carbon structure with a very low volatile content. Carbonization (removing the coal volatiles) begins occurring at approximately 400 °F and continues to about 1,300 °F. Once the volatiles are driven off, activation begins to occur in the presence of steam between 1,300 and 1,800 °F. As steam reacts with the carbon in the coal to form hydrogen and CO, a highly porous, AC structure is developed. Controlled amounts of air are added to burn the by-product hydrogen and CO gases, resulting in a net exothermic and self-sustaining process.

The proposed process is continuous and centers on the activation furnaces where the coal is dried, pyrolyzed and activated with steam. The coal is fed into the top of each furnace onto the first hearth where it meets hot gases exiting the second hearth. The water vapor emitted from the coal on the top hearth mixes with the gases coming from the second hearth and exits

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**RED RIVER ENVIRONMENTAL PRODUCTS, LLC**  
**AGENCY INTEREST NO.: 152139**  
**ARMISTEAD, RED RIVER PARISH, LOUISIANA**

at the top of the furnace. The partially dried coal moves towards the perimeter of the first hearth by a continuous rotating system of rabble or rake arms, and then falls by gravity through drop holes onto the second hearth. The second hearth rabble arms move the material toward the center of the second hearth, where it falls through a drop hole to the third hearth and continues through the subsequent hearths in this manner. Concurrently, the gases and water vapor emitted from the coal move vertically upward from hearth to hearth mixing with the gases on the hearth above until the by-product/waste gas exits at the top of the multi-hearth furnace (MHF). As it drops through the hearths, the coal continues to dry and pyrolyze to a char, then is activated by the injection of steam to produce the AC product.

Natural gas is used as supplemental fuel in each MHF. During normal operation, a small quantity of natural gas is used to help control the process temperature, but the majority of the heat comes from the activation process itself.

As a whole, the activation process is exothermic, producing more heat than it consumes. The waste heat from the process will be used to generate steam. The by-product/waste gas from the MHFs will be routed to an afterburner. The gases exiting the afterburner will pass through an unfired waste heat recovery boiler and economizer to make steam. A portion of this steam is routed to the MHF steam injection system to drive the activation process. The balance of this steam is used to drive steam turbine generators to make electrical energy. Excess power (less than 20 MW net per production line) will be exported to the utility transmission system. The steam loop will generate no air pollutant emissions.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Emissions in tons per year</u>
PM <sub>10</sub>	423.9
SO <sub>2</sub>	638.2
NO <sub>x</sub>	677.2
CO	329.8
VOC	314.7

VOC LAC 33:III Chapter 51 Toxic Air  
Pollutants (TAPs): in tons per year

Non-VOC LAC 33:III Chapter 51 Toxic Air  
Pollutants (TAPs): in tons per year

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**RED RIVER ENVIRONMENTAL PRODUCTS, LLC**  
**AGENCY INTEREST NO.: 152139**  
**ARMISTEAD, RED RIVER PARISH, LOUISIANA**

Pollutant	Emissions	Pollutant	Emissions
1,1,2,2 -Tetrachloroethane	<0.001	Ammonia	18.43
1,1,2-Trichloroethane	<0.001	Antimony (and compounds)	<0.001
1, 1- Dichloroethane	<0.001	Arsenic (and compounds)	<0.001
1, 2- Dichloroethane	<0.001	Barium (and compounds)	0.785
1, 2- Dichloropropane	<0.001	Beryllium (Table 51.1)	0.004
1, 3- Butadiene	<0.001	Cadmium (and compounds)	0.008
2, 4- Dinitrotoluene	<0.001	Chromium VI (and compounds)	0.048
Acetaldehyde	0.003	Copper (and compounds)	0.024
Acetophenone	<0.001	Hydrogen Chloride	3.38
Acrolein	0.001	Hydrogen Fluoride	2.23
Benzene	0.004	Hydrogen Sulfide	0.34
Benzyl Chloride	0.002	Lead compounds	0.001
Biphenyl	<0.001	Manganese (and compounds)	0.145
Bromoform	<0.001	Mercury (and compounds)	0.022
Carbon Disulfide	<0.001	Nickel (and compounds)	0.025
Carbon Tetrachloride	<0.001	Selenium (and compounds)	0.001
Chlorinated Dibenzo-P-Dioxins	<0.0001	Sulfuric Acid	9.78
Chlorinated Dibenzofurans	<0.0001	Zinc (and compounds)	0.004
Chlorobenzene	<0.001		
Chloroethane	<0.001		
Chloroform	<0.001		
Cyanide compounds	0.008		
Ethyl Benzene	<0.001		
Formaldehyde	0.001		
Hexachlorobenzene	<0.001		
Methyl Bromide	<0.001		

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**RED RIVER ENVIRONMENTAL PRODUCTS, LLC**  
**AGENCY INTEREST NO.: 152139**  
**ARMISTEAD, RED RIVER PARISH, LOUISIANA**

<u>VOC LAC 33:III Chapter 51 Toxic Air</u> <u>Pollutants (TAPs): in tons per year</u>		<u>Non-VOC LAC 33:III Chapter 51 Toxic Air</u> <u>Pollutants (TAPs): in tons per year</u>	
<u>Pollutant</u>	<u>Emissions</u>	<u>Pollutant</u>	<u>Emissions</u>
Methyl Chloride	0.005		
Methyl Ethyl Ketone	0.001		
Naphthalene	<0.001		
Polynuclear Aromatic Hydrocarbons	<0.001		
Propionaldehyde	0.001		
Styrene	<0.001		
Toluene	0.001		
Vinyl Acetate	<0.001		
Vinyl Chloride	<0.001		
Xylene (mixed isomers)	<0.001		
<b>Total</b>	<b>0.033</b>		<b>35.22</b>

Pollutant  
Other VOC (TPY): 314.7

#### **IV. Type of Review**

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, Prevention of Significant Deterioration (PSD), and New Source Performance Standards (NSPS). National Emission Standards for Hazardous Air Pollutants (NESHAP) do not apply.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

#### **V. Credible Evidence**

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**RED RIVER ENVIRONMENTAL PRODUCTS, LLC**  
**AGENCY INTEREST NO.: 152139**  
**ARMISTEAD, RED RIVER PARISH, LOUISIANA**

would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**VI. Public Notice**

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 200X; and in the <local paper>, <local town>, on <date>, 200X. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

**VII. Effects on Ambient Air**

Dispersion Model(s) Used: AERMOD

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})
PM <sub>10</sub>	24 hour average	75.53 µg/m <sup>3</sup>	(150 µg/m <sup>3</sup> )
SO <sub>2</sub>	3 hour average	308.45 µg/m <sup>3</sup>	(1300 µg/m <sup>3</sup> )
SO <sub>2</sub>	24 hour average	64.48 µg/m <sup>3</sup>	(365 µg/m <sup>3</sup> )
SO <sub>2</sub>	Annual	12.28 µg/m <sup>3</sup>	(80 µg/m <sup>3</sup> )
NO <sub>x</sub>	Annual	13.31 µg/m <sup>3</sup>	(100 µg/m <sup>3</sup> )

**VIII. General Condition XVII Activities**

None



**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**RED RIVER ENVIRONMENTAL PRODUCTS, LLC**  
**AGENCY INTEREST NO.: 152139**  
**ARMISTEAD, RED RIVER PARISH, LOUISIANA**

**IX. Insignificant Activities (per LAC 33:III.501.B.5)**

Description	Citation
Fire water pump diesel storage tank (500 gal)	A.3
Fugitive emissions from four 16,000-gal inorganic salt solution storage tanks	A.4
Fugitive emissions from two 7,500-gal sulfuric acid storage tank	A.4
Two 0.2-MMBtu/hr gas-fired HVAC furnaces	A.5
Six 0.05-MMBtu/hr space heaters	A.5
Laboratory equipment/vents	A.6
Process sample points and gas analyzers	A.9
Four 16,000-gal inorganic salt solution storage tanks (see A-4)	A.10
Storage of miscellaneous water treatment chemical (inhibitors and membrane-cleaning chemicals in 200-gal totes)	A.10
Maintenance of grounds and buildings	B.1
Surface coating of equipment during construction/maintenance	B.2
Misc. equipment maintenance or construction	B.3
Vehicle refueling exhaust emissions	B.4
Office activities	B.5
Emissions from storage or use of water-treating chemicals	B.8 and B.40
Misc. additions or upgrades of instrumentation/control systems	B.9
Emissions from air contaminant detectors and combustion controllers	B.11
Buildings, cabinets and facilities used for chemical storage	B.12
Use of products for maintaining facility motor vehicles	B.13
Stacks for vents to prevent escape of sanitary sewer gases	B.15
Emissions from equipment lubricating systems	B.16
Air conditioning systems not regulated under CAA Title VI	B.17
Instrument air systems, excluding fuel-fired compressors	B.22
Paved parking lots	B.23
Air vents from air compressors	B.24
Periodic use of air for cleanup	B.25
Solid waste dumpsters	B.26

**AIR PERMIT BRIEFING SHEET  
AIR PERMITS DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**RED RIVER ENVIRONMENTAL PRODUCTS, LLC  
AGENCY INTEREST NO.: 152139  
ARMISTEAD, RED RIVER PARISH, LOUISIANA**

<u>Description</u>	<u>Citation</u>
Emissions of wet lime mud from lime mud mix/slurry tanks	B.27
Emissions from natural gas odoring activities	B.29
Emissions from engine crankcase vents	B.30
Emissions from fire fighting training	B.41
Portable diesel fuel storage tanks used on a temporary basis	B.44

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

RED RIVER ENVIRONMENTAL PRODUCTS, LLC

AGENCY INTEREST NO.: 152139

ARMISTEAD, RED RIVER PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III. Chapter																	
		5	9	11	13	15	2103	2104*	2107	2111	2113	2122	3003	22	29*	51*	53*	56	59*
UNF 1	Entire Facility	1	1	1	1					1		1			1	1		1	3
EQT 1	EP - 101 Production Line No. 1	1		1	1	2										1			
EQT 2	EP - 201 Production Line No. 2	1		1	1	2										1			
EQT 3	EP - 106 Cooling Tower No. 1																		
EQT 95	EP – 206 Cooling Tower No. 2																		
EQT 157	Coal unloading area	1			1														
EQT 158	Coal crusher area	1			1														
EQT 159	Coal Storage	1			1														
EQT 162	EP-904 Emergency Fire Water Pump	1		1		3													
EQT 14	EP-107 MHF Product Blower	1			1														
EQT 36	EP-108 GAC screening and transfer	1			1														

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ARMISTEAD, RED RIVER PARISH, LOUISIANA

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ID No.: Description		LAC 33:III.Chapter																	
		5	9	11	13	15	2103	2104*	2107	2111	2113	2122	3003	22	29*	51*	53*	56	59*
EQT 37	EP-109 Mill area	1			1														
EQT 38	EP-111 Product Day Silo 1A Bin Vent	1			1														
EQT 39	EP-112 Product Day Silo 1B Bin Vent	1			1														
EQT 40	EP-113 Product Day Silo 1C Bin Vent	1			1														
EQT 41	EP-115 GAC Rail Storage Transfer	1			1														
EQT 42	EP-116 Rail Product Storage Silo 1A receiver	1			1														
EQT 43	EP-117 Rail Product Storage Silo 1B Receiver	1			1														
EQT 44	EP-118 Rail Product Storage Silo 1C Receiver	1			1														
EQT 45	EP-119 Rail Product Storage Silo 1D Receiver	1			1														
EQT 46	EP-120 Rail Product Storage Silo 1E Receiver	1			1														
EQT 47	EP-121 Rail Product Storage Silo 1F Receiver	1			1														

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ARMISTEAD, RED RIVER PARISH, LOUISIANA

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ID No.: Description		LAC 33:III.Chapter																	
		5	9	11	13	15	2103	2104*	2107	2111	2113	2122	3003	22	29*	51*	53*	56	59*
EQT 48	EP-122 Rail Product Storage Silo 1G Receiver	1			1														
EQT 49	EP-123 Rail Product Storage Silo 1A Bin Vent	1			1														
EQT 50	EP-124 Rail Product Storage Silo 1B Bin Vent	1			1														
EQT 51	EP-125 Rail Product Storage Silo 1C Bin Vent	1			1														
EQT 52	EP-126 Rail Product Storage Silo 1D Bin Vent	1			1														
EQT 53	EP-127 Rail Product Storage Silo 1E Bin Vent	1			1														
EQT 54	EP-128 Rail Product Storage Silo 1F Bin Vent	1			1														
EQT 55	EP-129 Rail Product Storage Silo 1G Bin Vent	1			1														
EQT 56	EP-130 Railcar Loading from Storage Silo 1A	1			1														
EQT 57	EP-131 Railcar Loading from Storage Silo 1B	1			1														
EQT 58	EP-132 Railcar Loading from Storage Silo 1C	1			1														

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ID No.: Description		LAC 33:III. Chapter																	
		5	9	11	13	15	2103	2104*	2107	2111	2113	2122	3003	22	29*	51*	53*	56	59*
EQT 59	EP-133 Railcar Loading from Storage Silo 1D	1			1														
EQT 60	EP-134 Railcar Loading from Storage Silo 1E	1			1														
EQT 61	EP-135 Railcar Loading from Storage Silo 1F	1			1														
EQT 62	EP-136 Railcar Loading from Storage Silo 1G	1			1														
EQT 63	EP-137 GAC Truck Storage Transfer	1			1														
EQT 64	EP-138 Truck Product Storage Silo 1A Receiver	1			1														
EQT 65	EP-139 Truck Product Storage Silo 1B Receiver	1			1														
EQT 66	EP-140 Truck Product Storage Silo 1C Receiver	1			1														
EQT 67	EP-141 Truck Product Storage Silo 1D Receiver	1			1														
EQT 68	EP-162 Truck Product Storage Silo 1E Receiver	1			1														
EQT 69	EP-163 Truck Product Storage Silo 1F Receiver	1			1														

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements																			
ID No.: Description		LAC 33:III. Chapter																	
		5	9	11	13	15	2103	2104*	2107	2111	2113	2122	3003	22	29*	51*	53*	56	59*
EQT 70	EP-164 Truck Product Storage Silo 1G Receiver	1			1														
EQT 71	EP-142 Truck Product Storage Silo 1A Bin Vent	1			1														
EQT 72	EP-143 Truck Product Storage Silo 1B Bin Vent	1			1														
EQT 73	EP-144 Truck Product Storage Silo 1C Bin Vent	1			1														
EQT 74	EP-145 Truck Product Storage Silo 1D Bin Vent	1			1														
EQT 75	EP-165 Truck Product Storage Silo 1E Bin Vent	1			1														
EQT 76	EP-166 Truck Product Storage Silo 1F Bin Vent	1			1														
EQT 77	EP-167 Truck Product Storage Silo 1G Bin Vent	1			1														
EQT 78	EP-146 Truck Loading From Storage Silo 1A	1			1														
EQT 79	EP-147 Truck Loading From Storage Silo 1B	1			1														
EQT 80	EP-148 Truck Loading From Storage Silo 1C	1			1														

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

RED RIVER ENVIRONMENTAL PRODUCTS, LLC

AGENCY INTEREST NO.: 152139

ARMISTEAD, RED RIVER PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.: Description		LAC 33:III.Chapter																	
		5	9	11	13	15	2103	2104*	2107	2111	2113	2122	3003	22	29*	51*	53*	56	59*
EQT 81	EP-149 Truck Loading from storage silo 1D	1			1														
EQT 82	EP-168 Truck Loading from Storage Silo 1E	1			1														
EQT 83	EP-169 Truck Loading from Storage Silo 1F	1			1														
EQT 84	EP-170 Truck Loading form Storage Silo 1G	1			1														
EQT 85	EP-150 Coal Day Silo Transfers	1			1														
EQT 86	EP-151 Recycle Solids Blower	1			1														
EQT 87	EP-152 Recycle Solids Bin Vent	1			1														
EQT 88	EP-153 Lime Storage Silo Bin Vent	1			1														
EQT 89	EP-154 Solids Storage Silo Bin Vent	1			1														
EQT 90	EP-155 Solids Blower	1			1														
EQT 91	EP-156 Truck Loading from Solids Silo	1			1														



## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

## RED RIVER ENVIRONMENTAL PRODUCTS, LLC

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ARMISTEAD, RED RIVER PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.: Description		LAC 33:III.Chapter																	
		5	9	11	13	15	2103	2104*	2107	2111	2113	2122	3003	22	29*	51*	53*	56	59*
EQT 92	EP-158 MHF product mechanical conveyance	1			1														
EQT 93	EP-160 Lime Storage Silo Receiver	1			1														
EQT 94	EP-161 Screened MHF Product Blower	1			1														
EQT 96	EP-207 MHF product blower	1			1														
EQT 97	EP-208 GAC screening and transfer	1			1														
EQT 98	EP-209 Mill area	1			1														
EQT 99	EP-211 Product day silo 2A bin vent	1			1														
EQT 100	EP-212 Product day silo 2B bin vent	1			1														
EQT 101	EP-213 Product day silo 2C bin vent	1			1														
EQT 102	EP-215 GAC rail storage transfer	1			1														
EQT 103	EP-216 Rail product storage silo 2A receiver	1			1														

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

## RED RIVER ENVIRONMENTAL PRODUCTS, LLC

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ARMISTEAD, RED RIVER PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements																			
ID No.: Description		LAC 33:III.Chapter																	
		5	9	11	13	15	2103	2104*	2107	2111	2113	2122	3003	22	29*	51*	53*	56	59*
EQT 104	EP-217 Rail product storage silo 2B receiver	1			1														
EQT 105	EP-218 Rail product storage silo 2C receiver	1			1														
EQT 106	EP-219 Rail product storage silo 2D receiver	1			1														
EQT 107	EP-220 Rail product storage silo 2E receiver	1			1														
EQT 108	EP-221 Rail product storage silo 2F receiver	1			1														
EQT 109	EP-222 Rail product storage silo 2G receiver	1			1														
EQT 110	EP-223 Rail product storage silo 2A bin vent	1			1														
EQT 111	EP-224 Rail product storage silo 2B bin vent	1			1														
EQT 112	EP-225 Rail product storage silo 2C bin vent	1			1														
EQT 113	EP-226 Rail product storage silo 2D bin vent	1			1														
EQT 114	EP-227 Rail product storage silo 2E bin vent	1			1														

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

## RED RIVER ENVIRONMENTAL PRODUCTS, LLC

AGENCY INTEREST NO.: 152139

ARMISTEAD, RED RIVER PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements																			
ID No.: Description		LAC 33:III.Chapter																	
		5	9	11	13	15	2103	2104*	2107	2111	2113	2122	3003	22	29*	51*	53*	56	59*
EQT 115	EP-228 Rail product storage silo 2F bin vent	1			1														
EQT 116	EP-229 Rail product storage silo 2G bin vent	1			1														
EQT 117	EP-230 Railcar loading from storage silo 2A	1			1														
EQT 118	EP-231 Railcar loading from storage silo 2B	1			1														
EQT 119	EP-232 Railcar loading from storage silo 2C	1			1														
EQT 120	EP-233 Railcar loading from storage silo 2D	1			1														
EQT 121	EP-234 Railcar loading from storage silo 2E	1			1														
EQT 122	EP-235 Railcar loading from storage silo 2F	1			1														
EQT 123	EP-236 Railcar loading form storage silo 2G	1			1														
EQT 124	EP-237 GAC truck storage transfer	1			1														
EQT 125	EP-238 Truck product storage silo 2A receiver	1			1														

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

## RED RIVER ENVIRONMENTAL PRODUCTS, LLC

AGENCY INTEREST NO.: 152139

ARMISTEAD, RED RIVER PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.: Description		LAC 33:III.Chapter																	
		5	9	11	13	15	2103	2104*	2107	2111	2113	2122	3003	22	29*	51*	53*	56	59*
EQT 126	EP-239 Truck product storage silo 2B receiver	1			1														
EQT 127	EP-240 Truck product storage silo 2C receiver	1			1														
EQT 128	EP-241 Truck product storage silo 2D receiver	1			1														
EQT 129	EP-262 Truck product storage silo 2E receiver	1			1														
EQT 130	EP-263 Truck product storage silo 2F receiver	1			1														
EQT 131	EP-264 Truck product storage silo 2G receiver	1			1														
EQT 132	EP-242 Truck product storage silo 2A bin vent	1			1														
EQT 134	EP-244 Truck product storage silo 2C bin vent	1			1														
EQT 135	EP -243 Truck product storage silo 2B bin vent	1			1														
EQT 136	EP-245 Truck product storage silo 2D bin vent	1			1														
EQT 137	EP-265 Truck product storage silo 2E bin vent	1			1														

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

## RED RIVER ENVIRONMENTAL PRODUCTS, LLC

AGENCY INTEREST NO.: 152139

ARMISTEAD, RED RIVER PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.: Description		LAC 33:III.Chapter																	
		5	9	11	13	15	2103	2104*	2107	2111	2113	2122	3003	22	29*	51*	53*	56	59*
EQT 138	EP-266 Truck product storage silo 2F bin vent	1			1														
EQT 139	EP-267 Truck product storage silo 2G bin vent	1			1														
EQT 140	EP-246 Truck loading from storage silo 2A	1			1														
EQT 141	EP-247 Truck loading from storage silo 2B	1			1														
EQT 142	EP-248 Truck loading from storage silo 2C	1			1														
EQT 143	EP-249 Truck loading from storage silo 2D	1			1														
EQT 144	EP-268 Truck loading from storage silo 2E	1			1														
EQT 145	EP-269 Truck loading from storage silo 2F	1			1														
EQT 146	EP-270 Truck loading from storage silo 2G	1			1														
EQT 147	EP-250 Coal day silo transfers	1			1														
EQT 148	EP-251 Recycle solids blower	1			1														

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

## RED RIVER ENVIRONMENTAL PRODUCTS, LLC

AGENCY INTEREST NO.: 152139

ARMISTEAD, RED RIVER PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.: Description		LAC 33:III.Chapter																	
		5	9	11	13	15	2103	2104*	2107	2111	2113	2122	3003	22	29*	51*	53*	56	59*
EQT 149	EP-252 Recycle solids bin vent	1			1														
EQT 150	EP-253 Lime storage silo bin vent	1			1														
EQT 151	EP-254 Solids storage silo bin vent	1			1														
EQT 152	EP-255 Solids blower	1			1														
EQT 153	EP-256 Truck loading from solids silo	1			1														
EQT 154	EP-258 MHF product mechanical conveyance	1			1														
EQT 155	EP-260 Lime storage receiver	1			1														
EQT 156	EP-261 Screened MHF product blower	1			1														
EQT 160	EP-157 AC Hg adsorption system	1																	
EQT 161	EP-257 AC Hg adsorption system	1																	

\* The regulations indicated above are State Only regulations.

# LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

RED RIVER ENVIRONMENTAL PRODUCTS, LLC  
 AGENCY INTEREST NO.: 152139  
 ARMISTEAD, RED RIVER PARISH, LOUISIANA

## KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.  
 -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

RED RIVER ENVIRONMENTAL PRODUCTS, LLC

AGENCY INTEREST NO.: 152139

ARMISTEAD, RED RIVER PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements																					
ID No.:	Description	40 CFR 60 NSPS						40 CFR 61			40 CFR 63 NESHAP					40 CFR					
		A	Db	Kb	GG	Y	III	A	J	A	Q	Z	Z	Z	64	68	73	75	76	77	82
UNF 1	Entire Facility	1													3						1
EQT 1	EP - 101 Production Line No. 1	1	1												1			3			
EQT 2	EP - 201 Production Line No. 2	1	1												1			3			
EQT 3	EP - 106 Cooling Tower No. 1										3	3									
EQT 95	Cooling Tower (2-cell) No. 2										3	3									
EQT 157	Coal unloading area	1				1															
EQT 158	Coal crusher area	1				1															
EQT 159	Coal Storage	1				1															
EQT 162	EP-904 Emergency Fire Water Pump	1					1														
EQT 14	EP-107 MHF Product Blower																				
EQT 36	EP-108 GAC screening and transfer																				
EQT 37	EP-109 Mill area																				
EQT 38	EP-111 Product Day Silo 1A Bin Vent																				
EQT 39	EP-112 Product Day Silo 1B Bin Vent																				
EQT 40	EP-113 Product Day Silo 1C Bin Vent																				



## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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AGENCY INTEREST NO.: 152139

ARMISTEAD, RED RIVER PARISH, LOUISIANA

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ID No.:	Description	40 CFR 60 NSPS						40 CFR 61			40 CFR 63 NESHAP			40 CFR					
		A	Db	Kb	GG	Y	III	A	J	A	Q	ZZZZ	64	68	73	75	76	77	82
EQT 41	EP-115 GAC Rail Storage Transfer																		
EQT 42	EP-116 Rail Product Storage Silo 1A receiver																		
EQT 43	EP-117 Rail Product Storage Silo 1B Receiver																		
EQT 44	EP-118 Rail Product Storage Silo 1C Receiver																		
EQT 45	EP-119 Rail Product Storage Silo 1D Receiver																		
EQT 46	EP-120 Rail Product Storage Silo 1E Receiver																		
EQT 47	EP-121 Rail Product Storage Silo 1F Receiver																		
EQT 48	EP-122 Rail Product Storage Silo 1G Receiver																		
EQT 49	EP-123 Rail Product Storage Silo 1A Bin Vent																		
EQT 50	EP-124 Rail Product Storage Silo 1B Bin Vent																		
EQT 51	EP-125 Rail Product Storage Silo 1C Bin Vent																		

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

## RED RIVER ENVIRONMENTAL PRODUCTS, LLC

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ID No.:	Description	40 CFR 60 NSPS						40 CFR 61		40 CFR 63 NESHAP			40 CFR						
		A	Db	Kb	GG	Y	IIII	A	J	A	Q	ZZZZ	64	68	73	75	76	77	82
EQT 52	EP-126 Rail Product Storage Silo 1D Bin Vent																		
EQT 53	EP-127 Rail Product Storage Silo 1E Bin Vent																		
EQT 54	EP-128 Rail Product Storage Silo 1F Bin Vent																		
EQT 55	EP-129 Rail Product Storage Silo 1G Bin Vent																		
EQT 56	EP-130 Railcar Loading from Storage Silo 1A																		
EQT 57	EP-131 Railcar Loading from Storage Silo 1B																		
EQT 58	EP-132 Railcar Loading from Storage Silo 1C																		
EQT 59	EP-133 Railcar Loading from Storage Silo 1D																		
EQT 60	EP-134 Railcar Loading from Storage Silo 1E																		
EQT 61	EP-135 Railcar Loading from Storage Silo 1F																		
EQT 62	EP-136 Railcar Loading from Storage Silo 1G																		
EQT 63	EP-137 GAC Truck Storage Transfer																		

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

RED RIVER ENVIRONMENTAL PRODUCTS, LLC

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ARMISTEAD, RED RIVER PARISH, LOUISIANA

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ID No.: Description		40 CFR 60 NSPS						40 CFR 61			40 CFR 63 NESHAP				40 CFR				
		A	D <b>b</b>	K <b>b</b>	G <b>G</b>	Y	IIII	A	J	A	Q	ZZZZ	64	68	73	75	76	77	82
EQT 64	EP-138 Truck Product Storage Silo 1A Receiver																		
EQT 65	EP-139 Truck Product Storage Silo 1B Receiver																		
EQT 66	EP-140 Truck Product Storage Silo 1C Receiver																		
EQT 67	EP-141 Truck Product Storage Silo 1D Receiver																		
EQT 68	EP-162 Truck Product Storage Silo 1E Receiver																		
EQT 69	EP-163 Truck Product Storage Silo 1F Receiver																		
EQT 70	EP-164 Truck Product Storage Silo 1G Receiver																		
EQT 71	EP-142 Truck Product Storage Silo 1A Bin Vent																		
EQT 72	EP-143 Truck Product Storage Silo 1B Bin Vent																		
EQT 73	EP-144 Truck Product Storage Silo 1C Bin Vent																		
EQT 74	EP-145 Truck Product Storage Silo 1D Bin Vent																		
EQT 75	EP-165 Truck Product Storage Silo 1E Bin Vent																		

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

RED RIVER ENVIRONMENTAL PRODUCTS, LLC

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ARMISTEAD, RED RIVER PARISH, LOUISIANA

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		A	Db	Kb	GG	Y	IIII	A	J	A	Q	ZZZZ	64	68	73	75	76	77	82
EQT 76	EP-166 Truck Product Storage Silo 1F Bin Vent																		
EQT 77	EP-167 Truck Product Storage Silo 1G Bin Vent																		
EQT 78	EP-146 Truck Loading From Storage Silo 1A																		
EQT 79	EP-147 Truck Loading From Storage Silo 1B																		
EQT 80	EP-148 Truck Loading From Storage Silo 1C																		
EQT 81	EP-149 Truck Loading from storage silo 1D																		
EQT 82	EP-168 Truck Loading from Storage Silo 1E																		
EQT 83	EP-169 Truck Loading from Storage Silo 1F																		
EQT 84	EP-170 Truck Loading form Storage Silo 1G																		
EQT 85	EP-150 Coal Day Silo Transfers																		
EQT 86	EP-151 Recycle Solids Blower																		
EQT 87	EP-152 Recycle Solids Bin Vent																		

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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		A	Db	Kb	GG	Y	IIII	A	J	A	Q	ZZZZ	64	68	73	75	76	77	82
EQT 88	EP-153 Lime Storage Silo Bin Vent																		
EQT 89	EP-154 Solids Storage Silo Bin Vent																		
EQT 90	EP-155 Solids Blower																		
EQT 91	EP-156 Truck Loading from Solids Silo																		
EQT 92	EP-158 MHF product mechanical conveyance																		
EQT 93	EP-160 Lime Storage Silo Receiver																		
EQT 94	EP-161 Screened MHF Product Blower																		
EQT 95	EP-206 Cooling Tower (2-cell) No. 2																		
EQT 96	EP-207 MHF product blower																		
EQT 97	EP-208 GAC screening and transfer																		
EQT 98	EP-209 Mill area																		
EQT 99	EP-211 Product day silo 2A bin vent																		

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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		A	Db	Kb	GG	Y	IIII	A	J	A	Q	ZZZZ	64	68	73	75	76	77	82
EQT 100	EP-212 Product day silo 2B bin vent																		
EQT 101	EP-213 Product day silo 2C bin vent																		
EQT 102	EP-215 GAC rail storage transfer																		
EQT 103	EP-216 Rail product storage silo 2A receiver																		
EQT 104	EP-217 Rail product storage silo 2B receiver																		
EQT 105	EP-218 Rail product storage silo 2C receiver																		
EQT 106	EP-219 Rail product storage silo 2D receiver																		
EQT 107	EP-220 Rail product storage silo 2E receiver																		
EQT 108	EP-221 Rail product storage silo 2F receiver																		
EQT 109	EP-222 Rail product storage silo 2G receiver																		
EQT 110	EP-223 Rail product storage silo 2A bin vent																		
EQT 111	EP-224 Rail product storage silo 2B bin vent																		

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		A	Db	Kb	GG	Y	IIII	A	J	A	Q	ZZZZ	64	68	73	75	76	77	82
EQT 112	EP-225 Rail product storage silo 2C bin vent																		
EQT 113	EP-226 Rail product storage silo 2D bin vent																		
EQT 114	EP-227 Rail product storage silo 2E bin vent																		
EQT 115	EP-228 Rail product storage silo 2F bin vent																		
EQT 116	EP-229 Rail product storage silo 2G bin vent																		
EQT 117	EP-230 Railcar loading from storage silo 2A																		
EQT 118	EP-231 Railcar loading from storage silo 2B																		
EQT 119	EP-232 Railcar loading from storage silo 2C																		
EQT 120	EP-233 Railcar loading from storage silo 2D																		
EQT 121	EP-234 Railcar loading from storage silo 2E																		
EQT 122	EP-235 Railcar loading from storage silo 2F																		
EQT 123	EP-236 Railcar loading form storage silo 2G																		

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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		A	Db	Kb	GG	Y	III	A	J	A	Q	Z	ZZZ	64	68	73	75	76	77	82
EQT 124	EP-237 GAC truck storage transfer																			
EQT 125	EP-238 Truck product storage silo 2A receiver																			
EQT 126	EP-239 Truck product storage silo 2B receiver																			
EQT 127	EP-240 Truck product storage silo 2C receiver																			
EQT 128	EP-241 Truck product storage silo 2D receiver																			
EQT 129	EP-262 Truck product storage silo 2E receiver																			
EQT 130	EP-263 Truck product storage silo 2F receiver																			
EQT 131	EP-264 Truck product storage silo 2G receiver																			
EQT 132	EP-242 Truck product storage silo 2A bin vent																			
EQT 134	EP-244 Truck product storage silo 2C bin vent																			
EQT 135	EP -243 Truck product storage silo 2B bin vent																			
EQT 136	EP-245 Truck product storage silo 2D bin vent																			



LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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		A	Db	Kb	GG	Y	III	A	J	A	Q	ZZZZ	64	68	73	75	76	77	82
EQT 137	EP-265 Truck product storage silo 2E bin vent																		
EQT 138	EP-266 Truck product storage silo 2F bin vent																		
EQT 139	EP-267 Truck product storage silo 2G bin vent																		
EQT 140	EP-246 Truck loading from storage silo 2A																		
EQT 141	EP-247 Truck loading from storage silo 2B																		
EQT 142	EP-248 Truck loading from storage silo 2C																		
EQT 143	EP-249 Truck loading from storage silo 2D																		
EQT 144	EP-268 Truck loading from storage silo 2E																		
EQT 145	EP-269 Truck loading from storage silo 2F																		
EQT 146	EP-270 Truck loading from storage silo 2G																		
EQT 147	EP-250 Coal day silo transfers																		
EQT 148	EP-251 Recycle solids blower																		

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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EQT 149	EP-252 Recycle solids bin vent																		
EQT 150	EP-253 Lime storage silo bin vent																		
EQT 151	EP-254 Solids storage silo bin vent																		
EQT 152	EP-255 Solids blower																		
EQT 153	EP-256 Truck loading from solids silo																		
EQT 154	EP-258 MHF product mechanical conveyance																		
EQT 155	EP-260 Lime storage receiver																		
EQT 156	EP-261 Screened MHF product blower																		

## KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
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**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**RED RIVER ENVIRONMENTAL PRODUCTS, LLC**

**AGENCY INTEREST NO.: 152139**

**ARMISTEAD, RED RIVER PARISH, LOUISIANA**

have been in place. If the specific criteria changes the source will have to comply at a future date.

3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

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## RED RIVER ENVIRONMENTAL PRODUCTS, LLC

AGENCY INTEREST NO.: 152139

ARMISTEAD, RED RIVER PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
UNF 1	Chemical Accident Prevention and Minimization of Consequences LAC 33:III, Chapter 59 (State)	Exempt – Does not store a regulated substance over threshold quantity.
EQT 162	Emission Standards for Sulfur Dioxide [LAC 33:III.1503]	EXEMPT. Unit emit less than 250 tons of SO <sub>2</sub> per year. [LAC 33:III.1503.C]

The above table provides explanation for either the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

## 40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
  - 1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
  - 2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
  - 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and

## 40 CFR PART 70 GENERAL CONDITIONS

4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.  
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
  - J. Records of required monitoring shall include the following:
    1. the date, place as defined in the permit, and time of sampling or measurements;
    2. the date(s) analyses were performed;
    3. the company or entity that performed the analyses;
    4. the analytical techniques or methods used;
    5. the results of such analyses; and
    6. the operating conditions as existing at the time of sampling or measurement.
 [Reference 40 CFR 70.6(a)(3)(ii)(A)]
  - K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
  - L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
  - M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
  - N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an

## 40 CFR PART 70 GENERAL CONDITIONS

emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]

- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
  
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
  
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
  - 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
  - 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
  - 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
  - 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
  - 5. changes in emissions would not qualify as a significant modification; and
  - 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
  
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
  - 1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33:III. Chapter 39.
  - 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.

## 40 CFR PART 70 GENERAL CONDITIONS

3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
  - a. Report by June 30 to cover January through March
  - b. Report by September 30 to cover April through June
  - c. Report by December 31 to cover July through September
  - d. Report by March 31 to cover October through December
4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
  1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
  2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
  3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
  4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
  5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
  6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]



## 40 CFR PART 70 GENERAL CONDITIONS

- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

## LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire received August 2, 2007 along with supplemental information received August 20, 2007, October 3, 2007, and November 2, 2007.
- IV. This permit shall become invalid, for the sources not constructed, if:
  - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
  - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.

The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.

This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.
- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.

## LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
    - 1. Report by June 30 to cover January through March
    - 2. Report by September 30 to cover April through June
    - 3. Report by December 31 to cover July through September
    - 4. Report by March 31 to cover October through December
  - D. Each report submitted in accordance with this condition shall contain the following information:
    - 1. Description of noncomplying emission(s);
    - 2. Cause of noncompliance;
    - 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
    - 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
    - 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.

## LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
  - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
  - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
  - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.
- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
- 1. Generally be less than 5 TPY

## LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

2. Be less than the minimum emission rate (MER)
3. Be scheduled daily, weekly, monthly, etc., or
4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division  
La. Dept. of Environmental Quality  
Post Office Box 4302  
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

**AI ID: 152139 Red River Environmental Products LLC - Greenfield Activated Carbon Facility**

**Activity Number: PER20070001**

**Permit Number: 2420-00027-V0**

**Air - Title V Regular Permit Initial**

Also Known As:	ID	Name	User Group	Start Date
	2420-00027	Red River Environmental Products LLC	CDS Number	08-02-2007
Physical Location:	Parish Rd 604, 1/2 Mi W of Armistead, LA 71019			
Mailing Address:	8100 Southpark Way Unit B Littleton, CO 80120			
Location of Front Gate:	32° 0' 22" 19 hundredths latitude, 93° 23' 30" 76 hundredths longitude, Coordinate Method: Interpolation - Map, Coordinate Datum: NAD27			
Related People:	Name	Mailing Address	Phone (Type)	Relationship
	C. Jean Bustard	8100 Southpark Way Unit B Littleton, CO 80120	3037341727 (WP)	Responsible Official for
Related Organizations:	Name	Address	Phone (Type)	Relationship
	Red River Environmental Products LLC	8100 Southpark Way Unit B Littleton, CO 80120		Operates
	Red River Environmental Products LLC	8100 Southpark Way Unit B Littleton, CO 80120		Owns
	Red River Environmental Products LLC	8100 Southpark Way Unit B Littleton, CO 80120		Air Billing Party for

**Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.**

# INVENTORIES

AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility

Activity Number: PER20070001

Permit Number: 2420-00027-V0

Air - Title V Regular Permit Initial

## Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>Entire Facility</b>						
EQT0001	EP - 101 - Production line No. 1		87500 tons/yr			8760 hr/yr (All Year)
EQT0002	EP - 201 - Production Line No. 2		87500 tons/yr			8760 hr/yr (All Year)
EQT0003	EP - 106 - Cooling Tower No. 1		10750 gallons/min			8760 hr/yr (All Year)
EQT0014	EP - 107 - MHF Product Blower		30000 lb/hr			8760 hr/yr (All Year)
EQT0036	EP - 108 - GAC screening and transfer		5000 lb/hr			8760 hr/yr (All Year)
EQT0037	EP - 109 - Mill area		30000 lb/hr			8760 hr/yr (All Year)
EQT0038	EP - 111 - Product Day Silo 1A Bin Vent		30000 lb/hr			8760 hr/yr (All Year)
EQT0039	EP - 112 - Product Day Silo 1B Bin Vent		30000 lb/hr			8760 hr/yr (All Year)
EQT0040	EP - 113 - Product Day Silo 1C Bin Vent		30000 lb/hr			8760 hr/yr (All Year)
EQT0041	EP - 115 - GAC Rail Storage Transfer		5000 lb/hr			8760 hr/yr (All Year)
EQT0042	EP - 116 - Rail Product Storage Silo 1A Receiver		30000 lb/hr			8760 hr/yr (All Year)
EQT0043	EP - 117 - Rail Product Storage Silo 1B Receiver		30000 lb/hr			8760 hr/yr (All Year)
EQT0044	EP - 118 - Rail Product Storage Silo 1C Receiver		30000 lb/hr			8760 hr/yr (All Year)
EQT0045	EP - 119 - Rail Product Storage Silo 1D Receiver		30000 lb/hr			8760 hr/yr (All Year)
EQT0046	EP - 120 - Rail Product Storage Silo 1E Receiver		30000 lb/hr			8760 hr/yr (All Year)
EQT0047	EP - 121 - Rail Product Storage Silo 1F Receiver		30000 lb/hr			8760 hr/yr (All Year)
EQT0048	EP - 122 - Rail Product Storage Silo 1G Receiver		30000 lb/hr			8760 hr/yr (All Year)
EQT0049	EP - 123 - Rail Product Storage Silo 1A Bin Vent		30000 lb/hr			8760 hr/yr (All Year)
EQT0050	EP - 124 - Rail Product Storage Silo 1B Bin Vent		30000 lb/hr			8760 hr/yr (All Year)
EQT0051	EP - 125 - Rail Product Storage Silo 1C Bin Vent		30000 lb/hr			8760 hr/yr (All Year)
EQT0052	EP - 126 - Rail Product Storage Silo 1D Bin Vent		30000 lb/hr			8760 hr/yr (All Year)
EQT0053	EP - 127 - Rail Product Storage Silo 1E Bin Vent		30000 lb/hr			8760 hr/yr (All Year)
EQT0054	EP - 128 - Rail Product Storage Silo 1F bin vent		30000 lb/hr			8760 hr/yr (All Year)
EQT0055	EP - 129 - Rail Product Storage Silo 1G Bin Vent		100000 lb/hr			8760 hr/yr (All Year)
EQT0056	EP - 130 - Railcar Loading from Storage silo 1A		100000 lb/hr			8760 hr/yr (All Year)
EQT0057	EP - 131 - Railcar Loading from Storage Silo 1B		100000 lb/hr			8760 hr/yr (All Year)
EQT0058	EP - 132 - Railcar loading from Storage Silo 1C		100000 lb/hr			8760 hr/yr (All Year)
EQT0059	EP - 133 - Railcar Loading from Storage Silo 1D		100000 lb/hr			8760 hr/yr (All Year)
EQT0060	EP - 134 - Railcar Loading from Storage Silo 1E		100000 lb/hr			8760 hr/yr (All Year)
EQT0061	EP - 135 - Railcar Loading from Storage Silo 1F		100000 lb/hr			8760 hr/yr (All Year)
EQT0062	EP - 136 - Railcar Loading from Storage Silo 1G		100000 lb/hr			8760 hr/yr (All Year)
EQT0063	EP - 137 - GAC Truck Storage Transfer		5000 lb/hr			8760 hr/yr (All Year)
EQT0064	EP - 138 - Truck Product Storage Silo 1A Receiver		30000 lb/hr			8760 hr/yr (All Year)
EQT0065	EP - 139 - Truck Product Storage Silo 1B Receiver		30000 lb/hr			8760 hr/yr (All Year)
EQT0066	EP - 140 - Truck Product Storage Silo 1C Receiver		30000 lb/hr			8760 hr/yr (All Year)
EQT0067	EP - 141 - Truck Product Storage Silo 1D Receiver		30000 lb/hr			8760 hr/yr (All Year)
EQT0068	EP - 142 - Truck Product Storage Silo 1E Receiver		30000 lb/hr			8760 hr/yr (All Year)
EQT0069	EP - 163 - Truck Product Storage Silo 1F Receiver		30000 lb/hr			8760 hr/yr (All Year)
EQT0070	EP - 164 - Truck Product Storage Silo 1G Receiver		30000 lb/hr			8760 hr/yr (All Year)
EQT0071	EP - 142 - Truck Product Storage Silo 1A Bin Vent		30000 lb/hr			8760 hr/yr (All Year)

**INVENTORIES**  
**AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility**  
**Activity Number: PER20070001**  
**Permit Number: 2420-00027-V0**  
**Air - Title V Regular Permit Initial**

**Subject Item Inventory:**

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>Entire Facility</b>						
EQ10072	EP - 143 - Truck Product Storage Silo 1B Bin Vent		30000 lb/hr			8760 hr/yr (All Year)
EQ10073	EP - 144 - Truck Product storage Silo 1C Bin Vent		30000 lb/hr			8760 hr/yr (All Year)
EQ10074	EP - 145 - Truck Product Storage Silo 1D Bin Vent		30000 lb/hr			8760 hr/yr (All Year)
EQ10075	EP - 165 - Truck Product Storage Silo 1E Bin Vent		30000 lb/hr			8760 hr/yr (All Year)
EQ10076	EP - 166 - Truck Product Storage Silo 1F Bin Vent		30000 lb/hr			8760 hr/yr (All Year)
EQ10077	EP - 167 - Truck Product Storage Silo 1G Bin Vent		30000 lb/hr			8760 hr/yr (All Year)
EQ10078	EP - 146 - Truck Loading from Storage Silo 1A		100000 lb/hr			8760 hr/yr (All Year)
EQ10079	EP - 147 - Truck Loading from Storage Silo 1B		100000 lb/hr			8760 hr/yr (All Year)
EQ10080	EP - 148 - Truck Loading from Storage silo 1C		100000 lb/hr			8760 hr/yr (All Year)
EQ10081	EP - 149 - Truck Loading from storage silo 1D		100000 lb/hr			8760 hr/yr (All Year)
EQ10082	EP - 168 - Truck Loading from Storage Silo 1E		100000 lb/hr			8760 hr/yr (All Year)
EQ10083	EP - 169 - Truck Loading From Storage Silo 1F		100000 lb/hr			8760 hr/yr (All Year)
EQ10084	EP - 170 - Truck Loading from storage silo 1G		100000 lb/hr			8760 hr/yr (All Year)
EQ10085	EP - 150 - Coal Day Silo Transfers		400000 lb/hr			8760 hr/yr (All Year)
EQ10086	EP - 151 - Recycle Solids Blower		5390 lb/hr			8760 hr/yr (All Year)
EQ10087	EP - 152 - Recycle Solids Bin Vent		5390 lb/hr			8760 hr/yr (All Year)
EQ10088	EP - 153 - Lime Storage Silo Bin Vent		100000 lb/hr			8760 hr/yr (All Year)
EQ10089	EP - 154 - Solids Storage Silo Bin Vent		8778 lb/hr			8760 hr/yr (All Year)
EQ10090	EP - 155 - Solids Blower		8778 lb/hr			8760 hr/yr (All Year)
EQ10091	EP - 156 - Truck Loading from Solids Silo		100000 lb/hr			8760 hr/yr (All Year)
EQ10092	EP - 158 - MHF product mechanical conveyance		5000 lb/hr			8760 hr/yr (All Year)
EQ10093	EP - 160 - Lime Storage Silo Receiver		100000 lb/hr			8760 hr/yr (All Year)
EQ10094	EP - 161 - Screened MHF product blower		5000 lb/hr			8760 hr/yr (All Year)
EQ10095	EP - 206 - Cooling Tower No. 2		10750 gallons/min			8760 hr/yr (All Year)
EQ10096	EP - 207 - MHF product blower		30000 lb/hr			8760 hr/yr (All Year)
EQ10097	EP - 208 - GAC screening and transfer		5000 lb/hr			8760 hr/yr (All Year)
EQ10098	EP - 209 - Mill area		30000 lb/hr			8760 hr/yr (All Year)
EQ10099	EP - 211 - Product day silo 2A bin vent		30000 lb/hr			8760 hr/yr (All Year)
EQ10100	EP - 212 - Product day silo 2B bin vent		30000 lb/hr			8760 hr/yr (All Year)
EQ10101	EP - 213 - Product day silo 2C bin vent		30000 lb/hr			8760 hr/yr (All Year)
EQ10102	EP - 215 - GAC rail storage transfer		5000 lb/hr			8760 hr/yr (All Year)
EQ10103	EP - 216 - Rail product storage silo 2A receiver		30000 lb/hr			8760 hr/yr (All Year)
EQ10104	EP - 217 - Rail product storage silo 2B receiver		30000 lb/hr			8760 hr/yr (All Year)
EQ10105	EP - 218 - Rail product storage silo 2C receiver		30000 lb/hr			8760 hr/yr (All Year)
EQ10106	EP - 219 - Rail product storage silo 2D receiver		30000 lb/hr			8760 hr/yr (All Year)
EQ10107	EP - 220 - Rail product storage silo 2E receiver		30000 lb/hr			8760 hr/yr (All Year)
EQ10108	EP - 221 - Rail product storage silo 2F receiver		30000 lb/hr			8760 hr/yr (All Year)
EQ10109	EP - 222 - Rail product storage silo 2G receiver		30000 lb/hr			8760 hr/yr (All Year)
EQ10110	EP - 223 - Rail product storage silo 2A bin vent		30000 lb/hr			8760 hr/yr (All Year)
EQ10111	EP - 224 - Rail product storage silo 2B bin vent		30000 lb/hr			8760 hr/yr (All Year)



**INVENTORIES****AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility****Activity Number: PER20070001****Permit Number: 2420-00027-V0****Air - Title V Regular Permit Initial****Subject Item Inventory:**

<b>ID</b>	<b>Description</b>	<b>Tank Volume</b>	<b>Max. Operating Rate</b>	<b>Normal Operating Rate</b>	<b>Contents</b>	<b>Operating Time</b>
<b>Entire Facility</b>						
EQT0112	EP - 225 - Rail product storage silo 2C bin vent		30000 lb/hr			8760 hr/yr (All Year)
EQT0113	EP - 226 - Rail product storage silo 2D bin vent		30000 lb/hr			8760 hr/yr (All Year)
EQT0114	EP - 227 - Rail product storage silo 2E bin vent		30000 lb/hr			8760 hr/yr (All Year)
EQT0115	EP - 228 - Rail product storage silo 2F bin vent		30000 lb/hr			8760 hr/yr (All Year)
EQT0116	EP - 229 - Rail product storage silo 2G bin vent		30000 lb/hr			8760 hr/yr (All Year)
EQT0117	EP - 230 - Railcar loading from storage silo 2A		100000 lb/hr			8760 hr/yr (All Year)
EQT0118	EP - 231 - Railcar loading from storage silo 2B		100000 lb/hr			8760 hr/yr (All Year)
EQT0119	EP - 232 - Railcar loading from storage silo 2C		100000 lb/hr			8760 hr/yr (All Year)
EQT0120	EP - 233 - Railcar loading from storage silo 2D		100000 lb/hr			8760 hr/yr (All Year)
EQT0121	EP - 234 - Railcar loading from storage silo 2E		100000 lb/hr			8760 hr/yr (All Year)
EQT0122	EP - 235 - Railcar loading from storage silo 2F		100000 lb/hr			8760 hr/yr (All Year)
EQT0123	EP - 236 - Railcar loading from storage silo 2G		100000 lb/hr			8760 hr/yr (All Year)
EQT0124	EP - 237 - GAC truck storage transfer		5000 lb/hr			8760 hr/yr (All Year)
EQT0125	EP - 238 - Truck product storage silo 2A receiver		30000 lb/hr			8760 hr/yr (All Year)
EQT0126	EP - 239 - Truck product storage silo 2B receiver		30000 lb/hr			8760 hr/yr (All Year)
EQT0127	EP - 240 - Truck product storage silo 2C receiver		30000 lb/hr			8760 hr/yr (All Year)
EQT0128	EP - 241 - Truck product storage silo 2D receiver		30000 lb/hr			8760 hr/yr (All Year)
EQT0129	EP - 262 - Truck product storage silo 2E receiver		30000 lb/hr			8760 hr/yr (All Year)
EQT0130	EP - 263 - Truck product storage silo 2F receiver		30000 lb/hr			8760 hr/yr (All Year)
EQT0131	EP - 264 - Truck product storage silo 2G receiver		30000 lb/hr			8760 hr/yr (All Year)
EQT0132	EP - 242 - Truck product storage silo 2A bin vent		30000 lb/hr			8760 hr/yr (All Year)
EQT0134	EP - 244 - Truck product storage silo 2C bin vent		30000 lb/hr			8760 hr/yr (All Year)
EQT0135	EP - 243 - Truck product storage silo 2B bin vent		30000 lb/hr			8760 hr/yr (All Year)
EQT0136	EP - 245 - Truck product storage silo 2D bin vent		30000 lb/hr			8760 hr/yr (All Year)
EQT0137	EP - 265 - Truck product storage silo 2E bin vent		30000 lb/hr			8760 hr/yr (All Year)
EQT0138	EP - 266 - Truck product storage silo 2F bin vent		30000 lb/hr			8760 hr/yr (All Year)
EQT0139	EP - 267 - Truck product storage silo 2G bin vent		30000 lb/hr			8760 hr/yr (All Year)
EQT0140	EP - 246 - Truck loading from storage silo 2A		100000 lb/hr			8760 hr/yr (All Year)
EQT0141	EP - 247 - Truck loading from storage silo 2B		100000 lb/hr			8760 hr/yr (All Year)
EQT0142	EP - 248 - Truck loading from storage silo 2C		100000 lb/hr			8760 hr/yr (All Year)
EQT0143	EP - 249 - Truck loading from storage silo 2D		100000 lb/hr			8760 hr/yr (All Year)
EQT0144	EP - 268 - Truck loading from storage silo 2E		100000 lb/hr			8760 hr/yr (All Year)
EQT0145	EP - 269 - Truck loading from storage silo 2F		100000 lb/hr			8760 hr/yr (All Year)
EQT0146	EP - 270 - Truck loading from storage silo 2G		100000 lb/hr			8760 hr/yr (All Year)
EQT0147	EP - 250 - Coal day silo transfers		400000 lb/hr			8760 hr/yr (All Year)
EQT0148	EP - 251 - Recycle solids blower		5390 lb/hr			8760 hr/yr (All Year)
EQT0149	EP - 252 - Recycle solids bin vent		5390 lb/hr			8760 hr/yr (All Year)
EQT0150	EP - 253 - Lime storage silo bin vent		100000 lb/hr			8760 hr/yr (All Year)
EQT0151	EP - 254 - Solids storage silo bin vent		8778 lb/hr			8760 hr/yr (All Year)
EQT0152	EP - 255 - Solids Blower		8778 lb/hr			8760 hr/yr (All Year)

**INVENTORIES****AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility****Activity Number: PER20070001****Permit Number: 2420-00027-V0****Air - Title V Regular Permit Initial****Subject Item Inventory:**

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>Entire Facility</b>						
EQ10153	EP - 256 - Truck loading from solids silo		100000 lb/hr			8760 hr/yr (All Year)
EQ10154	EP - 258 - MHF product mechanical conveyance		5000 lb/hr			8760 hr/yr (All Year)
EQ10155	EP - 260 - Lime storage silo receiver		100000 lb/hr			8760 hr/yr (All Year)
EQ10156	EP - 261 - Screened MHF product blower		5000 lb/hr			8760 hr/yr (All Year)
EQ10157	EP - 901 - Coal unloading area		746000 lb/hr			8760 hr/yr (All Year)
EQ10158	EP - 902 - Coal Crusher area		746000 tons/yr			8760 hr/yr (All Year)
EQ10159	EP - 903 - Coal Storage		746000 tons/yr			8760 hr/yr (All Year)
EQ10160	EP - 157 - Activated Carbon Hg adsorption system		32.5 lb/hr			8760 hr/yr (All Year)
EQ10161	EP - 257 - Activated Carbon Hg adsorption system		32.5 lb/hr			8760 hr/yr (All Year)
EQ10162	EP-904 - EP-904 Emergency Fire Water Pump		300 horsepower			100 hr/yr (All Year)
FUG0001	FS - 001 - Plant haul roads (fugitives source)					(None Specified)

**Stack Information:**

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (of)
<b>Entire Facility</b>							
EQ10001	EP - 101 - Production line No. 1	59	178000	8		185	193.7
EQ10002	EP - 201 - Production Line No. 2	59	178000	8		185	193.7
EQ10003	EP - 106 - Cooling Tower No. 1				3404	45	
EQ10014	EP - 107 - MHF Product Blower		20000	2.5		20	
EQ10036	EP - 108 - GAC screening and transfer		5000	1.2		24.9	
EQ10037	EP - 109 - Mill area			1.2		29.9	
EQ10038	EP - 111 - Product Day Silo 1A Bin Vent			.7		85	
EQ10039	EP - 112 - Product Day Silo 1B Bin Vent			.7		85	
EQ10040	EP - 113 - Product Day Silo 1C Bin Vent			.7		85	
EQ10041	EP - 115 - GAC Rail Storage Transfer			.8		20	
EQ10042	EP - 116 - Rail Product Storage Silo 1A Receiver			2.5		109.9	
EQ10043	EP - 117 - Rail Product Storage Silo 1B Receiver			2.5		109.9	
EQ10044	EP - 118 - Rail Product Storage Silo 1C Receiver			2.5		109.9	
EQ10045	EP - 119 - Rail Product Storage Silo 1D Receiver			2.5		109.9	
EQ10046	EP - 120 - Rail Product Storage Silo 1E Receiver			2.5		109.9	
EQ10047	EP - 121 - Rail Product Storage Silo 1F Receiver			2.5		109.9	
EQ10048	EP - 122 - Rail Product Storage Silo 1G Receiver			2.5		109.9	
EQ10049	EP - 123 - Rail Product Storage Silo 1A Bin Vent			.7		100.1	
EQ10050	EP - 124 - Rail Product Storage Silo 1B Bin Vent			.7		100.1	
EQ10051	EP - 125 - Rail Product Storage Silo 1C Bin Vent			.7		100.1	

**INVENTORIES****AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility****Activity Number: PER20070001****Permit Number: 2420-00027-V0****Air - Title V Regular Permit Initial****Stack Information:**

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
<b>Entire Facility</b>							
EQT0052	EP - 126 - Rail Product Storage Silo 1D Bin Vent		.7			100.1	
EQT0053	EP - 127 - Rail Product Storage Silo 1E Bin Vent		.7			100.1	
EQT0054	EP - 128 - Rail Product Storage Silo 1F Bin Vent		.7			100.1	
EQT0055	EP - 129 - Rail Product Storage Silo 1G Bin Vent		.7			100.1	
EQT0056	EP - 130 - Railcar Loading from Storage silo 1A		2			15.1	
EQT0057	EP - 131 - Railcar Loading from Storage Silo 1B		2			15.1	
EQT0058	EP - 132 - Railcar Loading from Storage Silo 1C		2			15.1	
EQT0059	EP - 133 - Railcar Loading from Storage Silo 1D		2			15.1	
EQT0060	EP - 134 - Railcar Loading from Storage Silo 1E		2			15.1	
EQT0062	EP - 136 - Railcar Loading from Storage Silo 1G		2			15.1	
EQT0063	EP - 137 - GAC Truck Storage Transfer		.8			15.1	
EQT0064	EP - 138 - Truck Product Storage Silo 1A Receiver		2.5			100	
EQT0065	EP - 139 - Truck Product Storage Silo 1B Receiver		2.5			100	
EQT0066	EP - 140 - Truck Product Storage Silo 1C Receiver		2.5			100	
EQT0067	EP - 141 - Truck Product Storage Silo 1D Receiver		2.5			100	
EQT0068	EP - 162 - Truck Product Storage Silo 1E Receiver		2.5			100	
EQT0069	EP - 163 - Truck Product Storage Silo 1 F Receiver		2.5			100	
EQT0070	EP - 164 - Truck Product Storage Silo 1G Receiver		2.5			100	
EQT0071	EP - 142 - Truck Product Storage Silo 1A Bin Vent		.7			90	
EQT0072	EP - 143 - Truck Product Storage Silo 1B Bin Vent		.7			90	
EQT0073	EP - 144 - Truck Product storage Silo 1C Bin Vent		.7			90	
EQT0074	EP - 145 - Truck Product Storage Silo 1D Bin Vent		.7			90	
EQT0075	EP - 165 - Truck Product Storage Silo 1E Bin Vent		.7			90	
EQT0076	EP - 166 - Truck Product Storage Silo 1F Bin Vent		.7			90	
EQT0077	EP - 167 - Truck Product Storage Silo 1G Bin Vent		.7			90	
EQT0078	EP - 146 - Truck Loading from Storage Silo 1A		2			15.1	
EQT0079	EP - 147 - Truck Loading from Storage Silo 1B		2			15.1	
EQT0080	EP - 148 - Truck Loading from Storage silo 1C		2			15.1	
EQT0081	EP - 149 - Truck Loading from storage silo 1D		2			15.1	
EQT0082	EP - 168 - Truck Loading from Storage Silo 1E		2			15.1	
EQT0083	EP - 169 - Truck Loading From Storage Silo 1F		2			15.1	
EQT0084	EP - 170 - Truck Loading from storage silo 1G		2			15.1	
EQT0085	EP - 150 - Coal Day Silo Transfers		2.2			100.1	
EQT0086	EP - 151 - Recycle Solids Blower		1.2			15.1	

**INVENTORIES**

**AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility**  
**Activity Number: PER20070001**  
**Permit Number: 2420-00027-V0**  
**Air - Title V Regular Permit Initial**

**Stack Information:**

<b>ID</b>	<b>Description</b>	<b>Velocity (ft/sec)</b>	<b>Flow Rate (cubic ft/min-actual)</b>	<b>Diameter (feet)</b>	<b>Discharge Area (square feet)</b>	<b>Height (feet)</b>	<b>Temperature (oF)</b>
<b>Entire Facility</b>							
EQT0087	EP - 152 - Recycle Solids Bin Vent			.7		35.1	
EQT0088	EP - 153 - Lime Storage Silo Bin Vent			.7		60	
EQT0089	EP - 154 - Solids Storage Silo Bin Vent			.7		75	
EQT0090	EP - 155 - Solids Blower			2.5		15.1	
EQT0091	EP - 156 - Truck Loading from Solids Silo			.1		15.1	
EQT0092	EP - 158 - MHF product mechanical conveyance			1.2		15.1	
EQT0093	EP - 160 - Lime Storage Silo Receiver			.8		65	
EQT0094	EP - 161 - Screened MHF product blower			2.5		15.1	
EQT0095	EP - 206 - Cooling Tower No. 2				3404	45	
EQT0096	EP - 207 - MHF product blower			2.5		20	
EQT0097	EP - 208 - GAC screening and transfer			1.2		24.9	
EQT0098	EP - 209 - Mill area			1.2		29.9	
EQT0099	EP - 211 - Product day silo 2A bin vent			.7		85	
EQT0100	EP - 212 - Product day silo 2B bin vent			.7		85	
EQT0101	EP - 213 - Product day silo 2C bin vent			.7		85	
EQT0102	EP - 215 - GAC rail storage transfer			.8		20	
EQT0103	EP - 216 - Rail product storage silo 2A receiver			2.5		109.9	
EQT0104	EP - 217 - Rail product storage silo 2B receiver			2.5		109.9	
EQT0105	EP - 218 - Rail product storage silo 2C receiver			2.5		109.9	
EQT0106	EP - 219 - Rail product storage silo 2D receiver			2.5		109.9	
EQT0107	EP - 220 - Rail product storage silo 2E receiver			2.5		109.9	
EQT0108	EP - 221 - Rail product storage silo 2F receiver			2.5		109.9	
EQT0109	EP - 222 - Rail product storage silo 2G receiver			2.5		109.9	
EQT0110	EP - 223 - Rail product storage silo 2A bin vent			.7		100.1	
EQT0111	EP - 224 - Rail product storage silo 2B bin vent			.7		100.1	
EQT0112	EP - 225 - Rail product storage silo 2C bin vent			.7		100.1	
EQT0113	EP - 226 - Rail product storage silo 2D bin vent			.7		100.1	
EQT0114	EP - 227 - Rail product storage silo 2E bin vent			.7		100.1	
EQT0115	EP - 228 - Rail product storage silo 2F bin vent			.7		100.1	
EQT0116	EP - 229 - Rail product storage silo 2G bin vent			.7		100.1	
EQT0117	EP - 230 - Railcar loading from storage silo 2A			2		15.1	
EQT0118	EP - 231 - Railcar loading from storage silo 2B			2		15.1	
EQT0119	EP - 232 - Railcar loading from storage silo 2C			2		15.1	
EQT0120	EP - 233 - Railcar loading from storage silo 2D			2		15.1	

## INVENTORIES

AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility

Activity Number: PER20070001

Permit Number: 2420-00027-V0

Air - Title V Regular Permit Initial

## Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
<b>Entire Facility</b>							
EQT0121	EP - 234 - Railcar loading from storage silo 2E			2		15.1	
EQT0122	EP - 235 - Railcar loading from storage silo 2F			2		15.1	
EQT0123	EP - 236 - Railcar loading from storage silo 2G			15.1		15.1	
EQT0124	EP - 237 - GAC truck storage transfer			.8		15.1	
EQT0125	EP - 238 - Truck product storage silo 2A receiver			2.5		99	
EQT0126	EP - 239 - Truck product storage silo 2B receiver			2.5		99	
EQT0127	EP - 240 - Truck product storage silo 2C receiver			2.5		99	
EQT0128	EP - 241 - Truck product storage silo 2D receiver			2.5		99	
EQT0129	EP - 262 - Truck product storage silo 2E receiver			2.5		99	
EQT0130	EP - 263 - Truck product storage silo 2F receiver			2.5		99	
EQT0131	EP - 264 - Truck product storage silo 2G receiver			2.5		99	
EQT0132	EP - 242 - Truck product storage silo 2A bin vent			.7		92	
EQT0134	EP - 244 - Truck product storage silo 2C bin vent			.7		92	
EQT0135	EP - 243 - Truck product storage silo 2B bin vent			.7		92	
EQT0136	EP - 245 - Truck product storage silo 2D bin vent			.7		92	
EQT0137	EP - 265 - Truck product storage silo 2E bin vent			.7		92	
EQT0138	EP - 266 - Truck product storage silo 2F bin vent			.7		92	
EQT0139	EP - 267 - Truck product storage silo 2G bin vent			.7		92	
EQT0140	EP - 246 - Truck loading from storage silo 2A			2		15.1	
EQT0141	EP - 247 - Truck loading from storage silo 2B			2		15.1	
EQT0142	EP - 248 - Truck loading from storage silo 2C			2		15.1	
EQT0143	EP - 249 - Truck loading from storage silo 2D			2		15.1	
EQT0144	EP - 268 - Truck loading from storage silo 2E			2		15.1	
EQT0145	EP - 269 - Truck loading from storage silo 2F			2		15.1	
EQT0146	EP - 270 - Truck loading from storage silo 2G			2		15.1	
EQT0147	EP - 250 - Coal day silo transfers			2.2		100.1	
EQT0148	EP - 251 - Recycle solids blower			1.2		15.1	
EQT0149	EP - 252 - Recycle solids bin vent			.7		35.1	
EQT0150	EP - 253 - Lime storage silo bin vent			.7		60	
EQT0151	EP - 254 - Solids storage silo bin vent			.7		75	
EQT0152	EP - 255 - Solids Blower			2.5		15.1	
EQT0153	EP - 256 - Truck loading from solids silo			.1		15.1	
EQT0154	EP - 258 - MHF product mechanical conveyance			1.2		15.1	
EQT0155	EP - 260 - Lime storage silo receiver			.8		65	

INVENTORIES

AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility

Activity Number: PER20070001

Permit Number: 2420-00027-V0

Air - Title V Regular Permit Initial

## Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
<b>Entire Facility</b>							
EQT0156	EP - 261 - Screened MHF product blower			2.5		15.1	
EQT0157	EP - 901 - Coal unloading area			3.7		20	
EQT0158	EP - 902 - Coal Crusher area			1.7		20	
EQT0159	EP - 903 - Coal Storage			2.2		20	
EQT0160	EP - 157 - Activated Carbon Hg adsorption system			.8		44.9	
EQT0161	EP - 257 - Activated Carbon Hg adsorption system			.8		44.9	
EQT0162	EP-904 - EP-904 Emergency Fire Water Pump			.67		15	

## Relationships:

## Subject Item Groups:

ID	Group Type	Group Description
CRG0001	Common Requirements Group	-
CRG0002	Common Requirements Group	-
CRG0003	Common Requirements Group	-
CRG0004	Common Requirements Group	-
GRP0001	Equipment Group	-
GRP0002	Equipment Group	-
GRP0003	Equipment Group	-
GRP0004	Equipment Group	-
GRP0005	Equipment Group	-
GRP0006	Equipment Group	-
GRP0007	Equipment Group	-
GRP0008	Equipment Group	-
GRP0009	Equipment Group	-
GRP0010	Equipment Group	-
UNF0001	Unit or Facility Wide	-

## Group Membership:

ID	Description	Member of Groups
EQT0001	EP - 101 - Production line No. 1	CRG0000000001
EQT0002	EP - 201 - Production Line No. 2	CRG0000000001
EQT0003	EP - 106 - Cooling Tower No. 1	CRG0000000004
EQT0014	EP - 107 - MHF Product Blower	CRG0000000003
EQT0036	EP - 108 - GAC screening and transfer	CRG0000000003
EQT0037	EP - 109 - Mill area	CRG0000000003

# INVENTORIES

AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility

Activity Number: PER20070001

Permit Number: 2420-00027-V0

Air - Title V Regular Permit Initial

## Group Membership:

ID	Description	Member of Groups
EQT0038	EP - 111 - Product Day Silo 1A Bin Vent	CRG0000000003, GRP0000000001
EQT0039	EP - 112 - Product Day Silo 1B Bin Vent	CRG0000000003, GRP0000000001
EQT0040	EP - 113 - Product Day Silo 1C Bin Vent	CRG0000000003, GRP0000000001
EQT0041	EP - 115 - GAC Rail Storage Transfer	CRG0000000003, GRP0000000005
EQT0042	EP - 116 - Rail Product Storage Silo 1A Receiver	CRG0000000003, GRP0000000002
EQT0043	EP - 117 - Rail Product Storage Silo 1B Receiver	CRG0000000003, GRP0000000002
EQT0044	EP - 118 - Rail Product Storage Silo 1C Receiver	CRG0000000003, GRP0000000002
EQT0045	EP - 119 - Rail Product Storage Silo 1D Receiver	CRG0000000003, GRP0000000002
EQT0046	EP - 120 - Rail Product Storage Silo 1E Receiver	CRG0000000003, GRP0000000002
EQT0047	EP - 121 - Rail Product Storage Silo 1F Receiver	CRG0000000003, GRP0000000002
EQT0048	EP - 122 - Rail Product Storage Silo 1G Receiver	CRG0000000003, GRP0000000002
EQT0049	EP - 123 - Rail Product Storage Silo 1A Bin Vent	CRG0000000003, GRP0000000003
EQT0050	EP - 124 - Rail Product Storage Silo 1B Bin Vent	CRG0000000003, GRP0000000003
EQT0051	EP - 125 - Rail Product Storage Silo 1C Bin Vent	CRG0000000003, GRP0000000003
EQT0052	EP - 126 - Rail Product Storage Silo 1D Bin Vent	CRG0000000003, GRP0000000003
EQT0053	EP - 127 - Rail Product Storage Silo 1E Bin Vent	CRG0000000003, GRP0000000003
EQT0054	EP - 128 - Rail Product Storage Silo 1F Bin Vent	CRG0000000003, GRP0000000003
EQT0055	EP - 129 - Rail Product Storage Silo 1G Bin Vent	CRG0000000003, GRP0000000003
EQT0056	EP - 130 - Railcar Loading from Storage silo 1A	CRG0000000003, GRP0000000004
EQT0057	EP - 131 - Railcar Loading from Storage Silo 1B	CRG0000000003, GRP0000000004
EQT0058	EP - 132 - Railcar Loading from Storage Silo 1C	CRG0000000003, GRP0000000004
EQT0059	EP - 133 - Railcar Loading from Storage Silo 1D	CRG0000000003, GRP0000000004
EQT0060	EP - 134 - Railcar Loading from Storage Silo 1E	CRG0000000003, GRP0000000004
EQT0061	EP - 135 - Railcar Loading from Storage Silo 1F	CRG0000000003, GRP0000000004
EQT0062	EP - 136 - Railcar Loading from Storage Silo 1G	CRG0000000003, GRP0000000004
EQT0063	EP - 137 - GAC Truck Storage Transfer	CRG0000000003, GRP0000000005
EQT0064	EP - 138 - Truck Product Storage Silo 1A Receiver	CRG0000000003, GRP0000000002
EQT0065	EP - 139 - Truck Product Storage Silo 1B Receiver	CRG0000000003, GRP0000000002
EQT0066	EP - 140 - Truck Product Storage Silo 1C Receiver	CRG0000000003, GRP0000000002
EQT0067	EP - 141 - Truck Product Storage Silo 1D Receiver	CRG0000000003, GRP0000000002
EQT0068	EP - 162 - Truck Product Storage Silo 1E Receiver	CRG0000000003, GRP0000000002
EQT0069	EP - 163 - Truck Product Storage Silo 1F Receiver	CRG0000000003, GRP0000000002
EQT0070	EP - 164 - Truck Product Storage Silo 1G Receiver	CRG0000000003, GRP0000000002
EQT0071	EP - 142 - Truck Product Storage Silo 1A Bin Vent	CRG0000000003, GRP0000000003
EQT0072	EP - 143 - Truck Product Storage Silo 1B Bin Vent	CRG0000000003, GRP0000000003
EQT0073	EP - 144 - Truck Product Storage Silo 1C Bin Vent	CRG0000000003, GRP0000000003
EQT0074	EP - 145 - Truck Product Storage Silo 1D Bin Vent	CRG0000000003, GRP0000000003
EQT0075	EP - 165 - Truck Product Storage Silo 1E Bin Vent	CRG0000000003, GRP0000000003
EQT0076	EP - 166 - Truck Product Storage Silo 1F Bin Vent	CRG0000000003, GRP0000000003
EQT0077	EP - 167 - Truck Product Storage Silo 1G Bin Vent	CRG0000000003, GRP0000000004
EQT0078	EP - 146 - Truck Loading from Storage Silo 1A	CRG0000000003, GRP0000000004
EQT0079	EP - 147 - Truck Loading from Storage Silo 1B	CRG0000000003, GRP0000000004
EQT0080	EP - 148 - Truck Loading from Storage silo 1C	CRG0000000003, GRP0000000004

## INVENTORIES

AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility

Activity Number: PER20070001

Permit Number: 2420-00027-V0

Air - Title V Regular Permit Initial

## Group Membership:

ID	Description	Member of Groups
EQT0081	EP - 149 - Truck Loading from storage silo 1D	CRG0000000003, GRP0000000004
EQT0082	EP - 168 - Truck Loading from Storage Silo 1E	CRG0000000003, GRP0000000004
EQT0083	EP - 169 - Truck Loading From Storage Silo 1F	CRG0000000003, GRP0000000004
EQT0084	EP - 170 - Truck Loading from storage silo 1G	CRG0000000003, GRP0000000004
EQT0085	EP - 150 - Coal Day Silo Transfers	CRG0000000003
EQT0086	EP - 151 - Recycle Solids Blower	CRG0000000003
EQT0087	EP - 152 - Recycle Solids Bin Vent	CRG0000000003
EQT0088	EP - 153 - Lime Storage Silo Bin Vent	CRG0000000003
EQT0089	EP - 154 - Solids Storage Silo Bin Vent	CRG0000000003
EQT0090	EP - 155 - Solids Blower	CRG0000000003
EQT0091	EP - 156 - Truck Loading from Solids Silo	CRG0000000003
EQT0092	EP - 158 - MHF product mechanical conveyance	CRG0000000003
EQT0093	EP - 160 - Lime Storage Silo Receiver	CRG0000000003
EQT0094	EP - 161 - Screened MHF product blower	CRG0000000004
EQT0095	EP - 206 - Cooling Tower No. 2	CRG0000000003
EQT0096	EP - 207 - MHF product blower	CRG0000000003
EQT0097	EP - 208 - GAC screening and transfer	CRG0000000003
EQT0098	EP - 209 - Mill area	CRG0000000003, GRP0000000006
EQT0099	EP - 211 - Product day silo 2A bin vent	CRG0000000003, GRP0000000006
EQT0100	EP - 212 - Product day silo 2B bin vent	CRG0000000003, GRP0000000006
EQT0101	EP - 213 - Product day silo 2C bin vent	CRG0000000003, GRP0000000007
EQT0102	EP - 215 - GAC rail storage transfer	CRG0000000003, GRP0000000008
EQT0103	EP - 216 - Rail product storage silo 2A receiver	CRG0000000003, GRP0000000008
EQT0104	EP - 217 - Rail product storage silo 2B receiver	CRG0000000003, GRP0000000008
EQT0105	EP - 218 - Rail product storage silo 2C receiver	CRG0000000003, GRP0000000008
EQT0106	EP - 219 - Rail product storage silo 2E receiver	CRG0000000003, GRP0000000008
EQT0107	EP - 220 - Rail product storage silo 2E receiver	CRG0000000003, GRP0000000008
EQT0108	EP - 221 - Rail product storage silo 2F receiver	CRG0000000003, GRP0000000008
EQT0109	EP - 222 - Rail product storage silo 2G receiver	CRG0000000003, GRP0000000009
EQT0110	EP - 223 - Rail product storage silo 2A bin vent	CRG0000000003, GRP0000000009
EQT0111	EP - 224 - Rail product storage silo 2B bin vent	CRG0000000003, GRP0000000009
EQT0112	EP - 225 - Rail product storage silo 2C bin vent	CRG0000000003, GRP0000000009
EQT0113	EP - 226 - Rail product storage silo 2D bin vent	CRG0000000003, GRP0000000009
EQT0114	EP - 227 - Rail product storage silo 2E bin vent	CRG0000000003, GRP0000000009
EQT0115	EP - 228 - Rail product storage silo 2F bin vent	CRG0000000003, GRP0000000009
EQT0116	EP - 229 - Rail product storage silo 2G bin vent	CRG0000000003, GRP0000000009
EQT0117	EP - 230 - Railcar loading from storage silo 2A	CRG0000000003, GRP0000000010
EQT0118	EP - 231 - Railcar loading from storage silo 2B	CRG0000000003, GRP0000000010
EQT0119	EP - 232 - Railcar loading from storage silo 2C	CRG0000000003, GRP0000000010
EQT0120	EP - 233 - Railcar loading from storage silo 2D	CRG0000000003, GRP0000000010
EQT0121	EP - 234 - Railcar loading from storage silo 2E	CRG0000000003, GRP0000000010
EQT0122	EP - 235 - Railcar loading from storage silo 2F	CRG0000000003, GRP0000000010
EQT0123	EP - 236 - Railcar loading from storage silo 2G	CRG0000000003, GRP0000000010



**INVENTORIES****AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility****Activity Number: PER20070001****Permit Number: 2420-00027-V0****Air - Title V Regular Permit Initial****Group Memberships:**

ID	Description	Member of Groups
EQT0124	EP - 237 - GAC truck storage transfer	CRG000000000003, GRP000000000007
EQT0125	EP - 238 - Truck product storage silo 2A receiver	CRG000000000003, GRP000000000008
EQT0126	EP - 239 - Truck product storage silo 2B receiver	CRG000000000003, GRP000000000008
EQT0127	EP - 240 - Truck product storage silo 2C receiver	CRG000000000003, GRP000000000008
EQT0128	EP - 241 - Truck product storage silo 2D receiver	CRG000000000003, GRP000000000008
EQT0129	EP - 282 - Truck product storage silo 2E receiver	CRG000000000003, GRP000000000008
EQT0130	EP - 263 - Truck product storage silo 2F receiver	CRG000000000003, GRP000000000008
EQT0131	EP - 264 - Truck product storage silo 2G receiver	CRG000000000003, GRP000000000008
EQT0132	EP - 242 - Truck product storage silo 2A bin vent	CRG000000000003, GRP000000000009
EQT0134	EP - 244 - Truck product storage silo 2C bin vent	CRG000000000003, GRP000000000009
EQT0135	EP - 243 - Truck product storage silo 2B bin vent	CRG000000000003, GRP000000000009
EQT0136	EP - 245 - Truck product storage silo 2D bin vent	CRG000000000003, GRP000000000009
EQT0137	EP - 265 - Truck product storage silo 2E bin vent	CRG000000000003, GRP000000000009
EQT0138	EP - 266 - Truck product storage silo 2F bin vent	CRG000000000003, GRP000000000009
EQT0139	EP - 267 - Truck product storage silo 2G bin vent	CRG000000000003, GRP000000000009
EQT0140	EP - 246 - Truck loading form storage silo 2A	CRG000000000003, GRP000000000010
EQT0141	EP - 247 - Truck loading from storage silo 2B	CRG000000000003, GRP000000000010
EQT0142	EP - 248 - Truck loading from storage silo 2C	CRG000000000003, GRP000000000010
EQT0143	EP - 249 - Truck loading from storage silo 2D	CRG000000000003, GRP000000000010
EQT0144	EP - 268 - Truck loading from storage silo 2E	CRG000000000003, GRP000000000010
EQT0145	EP - 269 - Truck loading from storage silo 2F	CRG000000000003, GRP000000000010
EQT0146	EP - 270 - Truck loading from storage silo 2G	CRG000000000003, GRP000000000010
EQT0147	EP - 250 - Coal day silo transfers	CRG000000000003
EQT0148	EP - 251 - Recycle solids blower	CRG000000000003
EQT0149	EP - 252 - Recycle solids bin vent	CRG000000000003
EQT0150	EP - 253 - Lime storage silo bin vent	CRG000000000003
EQT0151	EP - 254 - Solids storage silo bin vent	CRG000000000003
EQT0152	EP - 255 - Solids Blower	CRG000000000003
EQT0153	EP - 256 - Truck loading from solids silo	CRG000000000003
EQT0154	EP - 258 - MHF product mechanical conveyance	CRG000000000003
EQT0155	EP - 260 - Lime storage silo receiver	CRG000000000003
EQT0156	EP - 261 - Screened MHF product blower	CRG000000000003
EQT0157	EP - 901 - Coal unloading area	CRG000000000002
EQT0158	EP - 902 - Coal Crusher area	CRG000000000002
EQT0159	EP - 903 - Coal Storage	CRG000000000002
EQT0160	EP - 157 - Activated Carbon Hg adsorption system	CRG000000000003
EQT0161	EP - 257 - Activated Carbon Hg adsorption system	CRG000000000003

**NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group****Annual Maintenance Fee:**

Fee Number	Air Contaminant Source	Multipier	Units Of Measure
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INVENTORIES

AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility

Activity Number: PER20070001

Permit Number: 2420-00027-V0

Air - Title V Regular Permit Initial

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
0500	Industrial Inorganic Chemicals Mfg. N.E.C. (Rated Capacity)	175	MM Lb/Yr

SIC Codes:

# EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility

Activity Number: PER20070001

Permit Number: 2420-00027-V0

Air - Title V Regular Permit Initial

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
Entire Facility															
EQT 0001 EP - 101	37.60	45.12	164.80	77.30	92.76	338.40	48.30	57.96	209.70	101.20	121.44	319.10	35.90	43.08	157.30
EQT 0002 EP - 201	37.60	45.12	164.80	77.30	92.76	338.40	48.30	57.96	209.70	101.20	121.44	319.10	35.90	43.08	157.30
EQT 0003 EP - 106							0.34	0.41	1.48						
EQT 0014 EP - 107							0.02	0.02	0.05						
EQT 0036 EP - 108							<0.01	<0.01	<0.01						
EQT 0037 EP - 109							<0.01	<0.01	<0.01						
EQT 0038 EP - 111								<0.01							
EQT 0039 EP - 112								<0.01							
EQT 0040 EP - 113								<0.01							
EQT 0041 EP - 115								<0.01							
EQT 0042 EP - 116								0.02							
EQT 0043 EP - 117								0.02							
EQT 0044 EP - 118								0.02							
EQT 0045 EP - 119								0.02							
EQT 0046 EP - 120								0.02							
EQT 0047 EP - 121								0.02							
EQT 0048 EP - 122								0.02							
EQT 0049 EP - 123								<0.01							
EQT 0050 EP - 124								<0.01							
EQT 0051 EP - 125								<0.01							
EQT 0052 EP - 126								<0.01							
EQT 0053 EP - 127								<0.01							
EQT 0054 EP - 128								<0.01							

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility

Activity Number: PER20070001

Permit Number: 2420-00027-V0

Air - Title V Regular Permit Initial

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
Entire Facility															
EQT 0055 EP - 129								<0.01							
EQT 0056 EP - 130								<0.01							
EQT 0057 EP - 131								<0.01							
EQT 0058 EP - 132								<0.01							
EQT 0059 EP - 133								<0.01							
EQT 0060 EP - 134								<0.01							
EQT 0061 EP - 135								<0.01							
EQT 0062 EP - 136								<0.01							
EQT 0063 EP - 137								<0.01							
EQT 0064 EP - 138								0.02							
EQT 0065 EP - 139								0.02							
EQT 0066 EP - 140								0.02							
EQT 0067 EP - 141								0.02							
EQT 0068 EP - 162								0.02							
EQT 0069 EP - 163								0.02							
EQT 0070 EP - 164								0.02							
EQT 0071 EP - 142								<0.01							
EQT 0072 EP - 143								<0.01							
EQT 0073 EP - 144								<0.01							
EQT 0074 EP - 145								<0.01							
EQT 0075 EP - 165								<0.01							
EQT 0076 EP - 166								<0.01							
EQT 0077 EP - 167								<0.01							

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AIID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility

Activity Number: PER20070001

Permit Number: 2420-00027-V0

Air - Title V Regular Permit Initial

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
Entire Facility															
EQT 0078 EP - 146								<0.01							
EQT 0079 EP - 147								<0.01							
EQT 0080 EP - 148								<0.01							
EQT 0081 EP - 149								<0.01							
EQT 0082 EP - 168								<0.01							
EQT 0083 EP - 169								<0.01							
EQT 0084 EP - 170								<0.01							
EQT 0085 EP - 190							<0.01	<0.01	<0.01						
EQT 0086 EP - 151							<0.01	<0.01	0.02						
EQT 0087 EP - 152							<0.01	<0.01	<0.01						
EQT 0088 EP - 153							<0.01	<0.01	<0.01						
EQT 0089 EP - 154							<0.01	<0.01	<0.01						
EQT 0090 EP - 195							<0.01	<0.01	0.02						
EQT 0091 EP - 156							<0.01	<0.01	<0.01						
EQT 0092 EP - 158							<0.01	<0.01	<0.01						
EQT 0093 EP - 160							0.05	0.06	<0.01						
EQT 0094 EP - 161							<0.01	<0.01	0.01						
EQT 0095 EP - 206							0.34	0.41	1.48						
EQT 0096 EP - 207							0.02	0.02	0.05						
EQT 0097 EP - 208							<0.01	<0.01	<0.01						
EQT 0098 EP - 209							<0.01	<0.01	<0.01						
EQT 0099 EP - 211								<0.01							
EQT 0100 EP - 212								<0.01							

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility  
 Activity Number: PER20070001  
 Permit Number: 2420-00027-V0  
 Air - Title V Regular Permit Initial

Subject Item	CO			NOX			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
Entire Facility															
EQT 0101															
EP - 213															
EQT 0102															
EP - 215															
EQT 0103															
EP - 216															
EQT 0104															
EP - 217															
EQT 0105															
EP - 218															
EQT 0106															
EP - 219															
EQT 0107															
EP - 220															
EQT 0108															
EP - 221															
EQT 0109															
EP - 222															
EQT 0110															
EP - 223															
EQT 0111															
EP - 224															
EQT 0112															
EP - 225															
EQT 0113															
EP - 226															
EQT 0114															
EP - 227															
EQT 0115															
EP - 228															
EQT 0116															
EP - 229															
EQT 0117															
EP - 230															
EQT 0118															
EP - 231															
EQT 0119															
EP - 232															
EQT 0120															
EP - 233															
EQT 0121															
EP - 234															
EQT 0122															
EP - 235															
EQT 0123															
EP - 236															

# EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility

Activity Number: PER20070001

Permit Number: 2420-00027-V0

Air - Title V Regular Permit Initial

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
Entire Facility															
EQT 0124 EP - 237															
EQT 0125 EP - 238															
EQT 0126 EP - 239															
EQT 0127 EP - 240															
EQT 0128 EP - 241															
EQT 0129 EP - 262															
EQT 0130 EP - 263															
EQT 0131 EP - 264															
EQT 0132 EP - 242															
EQT 0134 EP - 244															
EQT 0135 EP - 243															
EQT 0136 EP - 245															
EQT 0137 EP - 265															
EQT 0138 EP - 266															
EQT 0139 EP - 267															
EQT 0140 EP - 246															
EQT 0141 EP - 247															
EQT 0142 EP - 248															
EQT 0143 EP - 249															
EQT 0144 EP - 268															
EQT 0145 EP - 269															
EQT 0146 EP - 270															
EQT 0147 EP - 250							<0.01	<0.01	<0.01			<0.01			

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility  
 Activity Number: PER20070001  
 Permit Number: 2420-00027-V0  
 Air - Title V Regular Permit Initial

Subject Item	CO			NOX			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
Entire Facility															
EQT 0148 EP - 251							<0.01	<0.01	0.02						
EQT 0149 EP - 252							<0.01	<0.01	<0.01						
EQT 0150 EP - 253							<0.01	<0.01	<0.01						
EQT 0151 EP - 254							<0.01	<0.01	<0.01						
EQT 0152 EP - 255							<0.01	<0.01	0.02						
EQT 0153 EP - 256							<0.01	<0.01	<0.01						
EQT 0154 EP - 258							<0.01	<0.01	<0.01						
EQT 0155 EP - 260							0.05	0.06	<0.01						
EQT 0156 EP - 281							<0.01	<0.01	0.01						
EQT 0157 EP - 901							<0.01	<0.01	<0.01						
EQT 0158 EP - 902							<0.01		<0.01						
EQT 0159 EP - 903							<0.01		<0.01						
EQT 0160 EP - 157							<0.01	<0.01	<0.01						
EQT 0161 EP - 257							<0.01	<0.01	<0.01						
EQT 0162 EP-904	2.00	2.40	0.10	9.30	11.16	0.465	0.66	0.79	0.03	0.62	0.74	0.031	0.74	0.89	0.04
FUG 0001 FS - 001							0.95	1.14	1.24						
GRP 0001							<0.01		0.01						
GRP 0002							0.02		0.04						
GRP 0003							<0.01		<0.01						
GRP 0004							<0.01		<0.01						
GRP 0005							<0.01		<0.01						
GRP 0006							<0.01		<0.01						
GRP 0007							<0.01		<0.01						



**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility

Activity Number: PER20070001

Permit Number: 2420-00027-V0

Air - Title V Regular Permit Initial

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
Entire Facility															
GRP 0008							0.02					0.04			
GRP 0009							<0.01					<0.01			
GRP 0010							<0.01					<0.01			

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS****AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility****Activity Number: PER20070001****Permit Number: 2420-00027-V0****Air - Title V Regular Permit Initial**

<b>Emission Pt.</b>	<b>Pollutant</b>	<b>Avg lb/hr</b>	<b>Max lb/hr</b>	<b>Tons/Year</b>
EQT 0001 EP - 101	1,1,2,2-Tetrachloroethane	< 0.001	< 0.001	< 0.001
	1,1,2-Trichloroethane	< 0.001	< 0.001	< 0.001
	1,1-Dichloroethane	< 0.001	< 0.001	< 0.001
	1,2-Dichloroethane	< 0.001	< 0.001	< 0.001
	1,2-Dichloropropane	< 0.001	< 0.001	< 0.001
	1,3-Dichloropropene	< 0.001	< 0.001	< 0.001
	2,4-Dinitrotoluene	< 0.001	< 0.001	< 0.001
	Acetaldehyde	< 0.001	< 0.001	0.002
	Acetophenone	< 0.001	< 0.001	< 0.001
	Acrolein	< 0.001	< 0.001	< 0.001
	Ammonia	2.10	2.52	9.21
	Antimony (and compounds)	< 0.001	< 0.001	< 0.001
	Arsenic (and compounds)	< 0.001	< 0.001	< 0.001
	Barium (and compounds)	0.090	0.108	0.393
	Benzene	< 0.001	< 0.001	0.002
	Benzyl chloride	< 0.001	< 0.001	< 0.001
	Beryllium (Table 51.1)	< 0.001	< 0.001	0.002
	Biphenyl	< 0.001	< 0.001	< 0.001
	Bromoform	< 0.001	< 0.001	< 0.001
	Cadmium (and compounds)	< 0.001	< 0.001	0.004
	Carbon disulfide	< 0.001	< 0.001	< 0.001
	Carbon tetrachloride	< 0.001	< 0.001	< 0.001
	Chlorinated Dibenzo-P-Dioxins	< 0.0001	< 0.0001	< 0.0001
	Chlorinated dibenzofurans	< 0.0001	< 0.0001	< 0.0001
	Chlorobenzene	< 0.001	< 0.001	< 0.001
	Chloroethane	< 0.001	< 0.001	< 0.001
	Chloroform	< 0.001	< 0.001	< 0.001
	Chromium VI (and compounds)	0.006	0.007	0.024
	Copper (and compounds)	0.003	0.004	0.003
	Cyanide compounds	0.001	0.001	0.004
	Ethyl benzene	< 0.001	< 0.001	< 0.001
	Formaldehyde	< 0.001	< 0.001	< 0.001
	Hexachlorobenzene	< 0.001	< 0.001	< 0.001
	Hydrochloric acid	0.39	0.468	1.69

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS****AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility****Activity Number: PER20070001****Permit Number: 2420-00027-V0****Air - Title V Regular Permit Initial**

<b>Emission Pt.</b>	<b>Pollutant</b>	<b>Avg lb/hr</b>	<b>Max lb/hr</b>	<b>Tons/Year</b>
EQT 0001 EP - 101	Hydrofluoric acid	0.26	0.312	1.12
	Hydrogen sulfide	0.039	0.047	0.17
	Lead compounds	< 0.001	< 0.001	< 0.001
	Manganese (and compounds)	0.017	0.020	0.073
	Mercury (and compounds)	0.005	0.006	0.011
	Methyl bromide	< 0.001	< 0.001	< 0.001
	Methyl chloride	< 0.001	< 0.001	0.003
	Methyl ethyl ketone	< 0.001	< 0.001	< 0.001
	Naphthalene	< 0.001	< 0.001	< 0.001
	Nickel (and compounds)	0.003	0.004	0.012
	Polynuclear Aromatic Hydrocarbons	< 0.001	< 0.001	< 0.001
	Propionaldehyde	< 0.001	< 0.001	< 0.001
	Selenium (and compounds)	< 0.001	< 0.001	< 0.001
	Styrene	< 0.001	< 0.001	< 0.001
	Sulfuric acid	1.12	1.344	4.89
	Toluene	< 0.001	< 0.001	< 0.001
	Vinyl acetate	< 0.001	< 0.001	< 0.001
	Vinyl chloride	< 0.001	< 0.001	< 0.001
	Xylene (mixed isomers)	< 0.001	< 0.001	< 0.001
	Zinc (and compounds)	< 0.001	< 0.001	0.002
EQT 0002 EP - 201	1,1,2,2-Tetrachloroethane	< 0.001	< 0.001	< 0.001
	1,1,2-Trichloroethane	< 0.001	< 0.001	< 0.001
	1,1-Dichloroethane	< 0.001	< 0.001	< 0.001
	1,2-Dichloroethane	< 0.001	< 0.001	< 0.001
	1,2-Dichloropropane	< 0.001	< 0.001	< 0.001
	1,3-Dichloropropene	< 0.001	< 0.001	< 0.001
	2,4-Dinitrotoluene	< 0.001	< 0.001	< 0.001
	Acetaldehyde	< 0.001	< 0.001	0.002
	Acetophenone	< 0.001	< 0.001	< 0.001
	Acrolein	< 0.001	< 0.001	< 0.001
	Ammonia	2.10	2.520	9.21
	Antimony (and compounds)	< 0.001	< 0.001	< 0.001
	Arsenic (and compounds)	< 0.001	< 0.001	< 0.001
	Barium (and compounds)	0.090	0.108	0.393

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility

Activity Number: PER20070001

Permit Number: 2420-00027-V0

Air - Title V Regular Permit Initial

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0002 EP - 201	Benzene	< 0.001	< 0.001	0.002
	Benzyl chloride	< 0.001	< 0.001	< 0.001
	Beryllium (Table 51.1)	< 0.001	< 0.001	0.002
	Biphenyl	< 0.001	< 0.001	< 0.001
	Bromoform	< 0.001	< 0.001	< 0.001
	Cadmium (and compounds)	< 0.001	< 0.001	0.004
	Carbon disulfide	< 0.001	< 0.001	< 0.001
	Carbon tetrachloride	< 0.001	< 0.001	< 0.001
	Chlorinated Dibenzo-P-Dioxins	< 0.0001	< 0.0001	< 0.0001
	Chlorinated dibenzofurans	< 0.0001	< 0.0001	< 0.0001
	Chlorobenzene	< 0.001	< 0.001	< 0.001
	Chloroethane	< 0.001	< 0.001	< 0.001
	Chloroform	< 0.001	< 0.001	< 0.001
	Chromium VI (and compounds)	0.006	0.007	0.024
	Copper (and compounds)	0.003	0.004	0.003
	Cyanide compounds	0.001	0.001	0.004
	Ethyl benzene	< 0.001	< 0.001	< 0.001
	Formaldehyde	< 0.001	< 0.001	< 0.001
	Hexachlorobenzene	< 0.001	< 0.001	< 0.001
	Hydrochloric acid	0.39	0.468	1.69
	Hydrofluoric acid	0.26	0.312	1.12
	Hydrogen sulfide	0.039	0.047	0.17
	Lead compounds	< 0.001	< 0.001	< 0.001
	Manganese (and compounds)	0.017	0.020	0.073
	Mercury (and compounds)	0.005	0.006	0.011
	Methyl bromide	< 0.001	< 0.001	< 0.001
	Methyl chloride	< 0.001	< 0.001	0.003
	Methyl ethyl ketone	< 0.001	< 0.001	< 0.001
	Naphthalene	< 0.001	< 0.001	< 0.001
	Nickel (and compounds)	0.003	0.004	0.012
	Polynuclear Aromatic Hydrocarbons	< 0.001	< 0.001	< 0.001
	Propionaldehyde	< 0.001	< 0.001	< 0.001
	Selenium (and compounds)	< 0.001	< 0.001	< 0.001
	Styrene	< 0.001	< 0.001	< 0.001

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS****AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility****Activity Number: PER20070001****Permit Number: 2420-00027-V0****Air - Title V Regular Permit Initial**

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0002 EP - 201	Sulfuric acid	1.12	1.344	4.89
	Toluene	< 0.001	< 0.001	< 0.001
	Vinyl acetate	< 0.001	< 0.001	< 0.001
	Vinyl chloride	< 0.001	< 0.001	< 0.001
	Xylene (mixed isomers)	< 0.001	< 0.001	< 0.001
	Zinc (and compounds)	< 0.001	< 0.001	0.002
EQT 0162 EP-904	1,3-Butadiene	< 0.001	< 0.001	< 0.001
	Acetaldehyde	0.002	0.002	< 0.001
	Acrolein	< 0.001	< 0.001	< 0.001
	Benzene	0.002	0.002	< 0.001
	Formaldehyde	0.003	0.004	< 0.001
	Naphthalene	< 0.001	< 0.001	< 0.001
	Polynuclear Aromatic Hydrocarbons	< 0.001	< 0.001	< 0.001
	Toluene	0.001	0.001	< 0.001
	Xylene (mixed isomers)	< 0.001	< 0.001	< 0.001
UNF 0001	1,1,2,2-Tetrachloroethane			< 0.001
	1,1,2-Trichloroethane			< 0.001
	1,1-Dichloroethane			< 0.001
	1,2-Dichloroethane			< 0.001
	1,2-Dichloropropane			< 0.001
	1,3-Butadiene			< 0.001
	1,3-Dichloropropene			< 0.001
	2,4-Dinitrotoluene			< 0.001
	Acetaldehyde			0.003
	Acetophenone			< 0.001
	Acrolein			0.001
	Ammonia			18.42
	Antimony (and compounds)			< 0.001
	Arsenic (and compounds)			< 0.001
	Barium (and compounds)			0.785
	Benzene			0.005
	Benzyl chloride			0.002
	Beryllium (Table 51.1)			0.004
	Biphenyl			< 0.001

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS****AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility****Activity Number: PER20070001****Permit Number: 2420-00027-V0****Air - Title V Regular Permit Initial**

<b>Emission Pt.</b>	<b>Pollutant</b>	<b>Avg lb/hr</b>	<b>Max lb/hr</b>	<b>Tons/Year</b>
UNF 0001	Bromoform			< 0.001
	Cadmium (and compounds)			0.008
	Carbon disulfide			0.001
	Carbon tetrachloride			0.001
	Chlorinated Dibenzo-P-Dioxins			< 0.0001
	Chlorinated dibenzofurans			< 0.0001
	Chlorobenzene			< 0.001
	Chloroethane			< 0.001
	Chloroform			< 0.001
	Chromium VI (and compounds)			0.048
	Copper (and compounds)			0.024
	Cyanide compounds			0.008
	Ethyl benzene			< 0.001
	Formaldehyde			0.001
	Hexachlorobenzene			< 0.001
	Hydrochloric acid			3.38
	Hydrofluoric acid			2.24
	Hydrogen sulfide			0.34
	Lead compounds			0.001
	Manganese (and compounds)			0.145
	Mercury (and compounds)			0.022
	Methyl bromide			< 0.001
	Methyl chloride			0.005
	Methyl ethyl ketone			0.001
	Naphthalene			< 0.001
	Nickel (and compounds)			0.025
	Polynuclear Aromatic Hydrocarbons			< 0.001
	Propionaldehyde			0.001
	Selenium (and compounds)			0.001
	Styrene			< 0.001
	Sulfuric acid			9.78
	Toluene			0.001
	Vinyl acetate			< 0.001
	Vinyl chloride			< 0.001

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility

Activity Number: PER20070001

Permit Number: 2420-00027-V0

Air - Title V Regular Permit Initial

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0001	Xylene (mixed isomers)			< 0.001
	Zinc (and compounds)			0.004

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

# **SPECIFIC REQUIREMENTS**

**AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility**

**Activity Number: PER20070001**

**Permit Number: 2420-00027-V0**

**Air - Title V Regular Permit Initial**

## **CRG0001 EP-101 - EP-201 MHF Production Lines**

**Group Members: EQT0001 EQT0002**

- 1 [40 CFR 60.42b]  
Except as in (k)(2), (k)(3), and (k)(4) of 40 CFR 60.42b Sulfur dioxide  $\leq 0.20$  lb/MMBTU (87 ng/l) heat input, or sulfur dioxide  $\geq 92\%$  reduction (less than or equal to 8 percent of the potential SO<sub>2</sub> emission rate) and  $\leq 1.20$  lb/MMBTU (520 ng/l) heat input. Except as provided in 40 CFR 60.42b(i), the sulfur dioxide emission limits apply at all times, including periods of startup, shutdown, and malfunction. Subpart Db.  
Which Months: All Year Statistical Basis: Thirty-day rolling average  
Natural Gas: Annual capacity factor  $\leq 10$  percent. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if capacity factor exceeds the maximum listed in this specific condition on a 12-month rolling average basis, calculated at the end of each month. Submit notification as in 40 CFR 60.49b(a)(2). Subpart Db. [40 CFR 60.44b(e)]  
Which Months: All Year Statistical Basis: Twelve-month rolling average (rolling 1-month basis)  
Conduct the performance tests required under 40 CFR 60.8 for demonstrating compliance with the sulfur dioxide standards using the test methods and procedures specified in 40 CFR 60 Appendix A, or in 40 CFR 60.45b, except as provided in 40 CFR 60.8(b). Subpart Db. [40 CFR 60.45b(b)]
- 2 [40 CFR 60.44b(e)]
- 3 [40 CFR 60.45b(b)]
- 4 [40 CFR 60.47b(a)]  
Oxygen or Carbon dioxide monitored by continuous emission monitor (CEM) continuously. If complying with the percent reduction standard, monitor either O<sub>2</sub> or CO<sub>2</sub> concentrations at the inlet and outlet of the SO<sub>2</sub> control device. Subpart Db. [40 CFR 60.47b(a)]  
Which Months: All Year Statistical Basis: One-hour average  
Oxygen or Carbon dioxide recordkeeping by continuous emission monitor (CEM) at the regulation's specified frequency. If complying with the percent reduction standard, record either O<sub>2</sub> or CO<sub>2</sub> concentrations at the inlet and outlet of the SO<sub>2</sub> control device. Subpart Db. [40 CFR 60.47b(a)]
- 5 [40 CFR 60.47b(a)]  
Sulfur dioxide monitored by continuous emission monitor (CEM) continuously. If complying with the percent reduction standard, monitor the SO<sub>2</sub> concentrations at the inlet and outlet of the SO<sub>2</sub> control device or comply with CEMS alternatives in 40 CFR 60.47b(b), or receive approval for an alternate monitoring procedure as in 40 CFR 60.13(i). Calculate sulfur dioxide emission rates as specified in 40 CFR 60.47b(d). Subpart Db. [40 CFR 60.47b(a)]  
Which Months: All Year Statistical Basis: One-hour average  
Obtain SO<sub>2</sub> emission data for at least 75 percent of the operating hours in at least 22 out of 30 successive boiler operating days. If this minimum data requirement is not met with a single monitoring system, supplement the emission data with data collected with other monitoring systems as approved by DEQ or the reference methods and procedures as described in 40 CFR 60.47b(b). Subpart Db. [40 CFR 60.47b(c)]
- 6 [40 CFR 60.47b(a)]
- 7 [40 CFR 60.47b(c)]
- 8 [40 CFR 60.49b(a)]  
Submit notification: Due as provided by 40 CFR 60.7. Submit a notification of the actual date of initial startup including design heat input capacity of the affected facility, identification of fuels to be combusted, copy of any federally enforceable requirement limiting annual capacity factor, and all other data as specified in 40 CFR 60.49b(a)(1) through (a)(4). Subpart Db. [40 CFR 60.49b(a)]  
Submit the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in 40 CFR 60 Appendix B to DEQ. Subpart Db. [40 CFR 60.49b(b)]
- 9 [40 CFR 60.49b(b)]
- 10 [40 CFR 60.49b(d)]  
Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor for natural gas for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]
- 11 [40 CFR 60.49b(h)]  
Submit excess emissions report. Due by the 30th day following the end of each six-month period. Report any excess emissions which occurred during the reporting period. Subpart Db. [40 CFR 60.49b(i)]



## SPECIFIC REQUIREMENTS

AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility

Activity Number: PER20070001

Permit Number: 2420-00027-V0

Air - Title V Regular Permit Initial

### CRG0001 EP-101 - EP-201 MHF Production Lines

- 12 [40 CFR 60.49b(k)] Submit a report to DEQ containing the sulfur dioxide emission rate information listed in 40 CFR 60.49b(k)(1) through (k)(11). Subpart Db. [40 CFR 60.49b(k)]
- 13 [40 CFR 60.49b(m)] Submit the information listed in 40 CFR 60.49b(m)(1) through (m)(4) in addition to that required under 40 CFR 60.49b(k), when the minimum amount of SO<sub>2</sub> data required under 40 CFR 60.47b(f) were not obtained during the reporting period. Subpart Db. [40 CFR 60.49b(m)]
- 14 [40 CFR 60.49b(o)] Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]
- 15 [40 CFR 64.3(b)(3)] Specific QA/QC Procedures: For pollutants subject to CAM, calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]
- 16 [40 CFR 64.6(c)(1)] Afterburner: Oxygen monitored by technically sound method continuously. Oxygen shall be monitored at a frequency of no less than four times per hour. [40 CFR 64.6(c)(1)]
- 17 [40 CFR 64.6(c)(1)] Which Months: All Year Statistical Basis: Hourly average  
Afterburner: Temperature monitored by technically sound method continuously. Temperature shall be monitored at a frequency of no less than four times per hour. [40 CFR 64.6(c)(1)]
- 18 [40 CFR 64.6(c)(2)] Which Months: All Year Statistical Basis: Hourly average  
Afterburner: An excursion or exceedance is defined as an oxygen reading or a temperature reading that falls outside of the indicator range established in the initial performance test. Ranges will be established to maintain a destruction efficiency sufficient to meet the emission limits for carbon monoxide and VOC's. [40 CFR 64.6(c)(2)]
- 19 [40 CFR 64.6(c)(2)] Submit Notification: Due at the DEQ upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
- 20 [40 CFR 64.6(c)(4)] Afterburner: Oxygen recordkeeping by electronic or hard copy at the approved frequency. Oxygen shall be recorded at a frequency of no less than four times per hour. [40 CFR 64.6(c)(4)]
- 21 [40 CFR 64.6(c)(4)] Afterburner: Temperature recordkeeping by electronic or hard copy at the approved frequency. Temperature shall be recorded at a frequency of no less than four times per hour. [40 CFR 64.6(c)(4)]
- 22 [40 CFR 64.6(d)] Schedule for installation, testing or final verification of operational status: Permittee shall install a continuous oxygen concentration monitoring system and a temperature monitoring device on the unit that controls VOC and CO emissions from this source. This installation shall occur prior to initial startup of this unit. Within 180 days of the commencement of commercial operation, permittee shall conduct a performance test to determine the indicator range for both the oxygen concentration monitoring system and the temperature monitoring device that show compliance with the applicable VOC and CO limitations. During the performance test, this source shall fire the worst case fuel configuration for the generation of VOC and CO. [40 CFR 64.6(d)]
- 23 [40 CFR 64.7(a)] Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- 24 [40 CFR 64.7(b)] Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]

# SPECIFIC REQUIREMENTS

AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility

Activity Number: PER20070001

Permit Number: 2420-00027-V0

Air - Title V Regular Permit Initial

## CRG0001 EP-101 - EP-201 MHF Production Lines

25 [40 CFR 64.7(c)]

Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]

26 [40 CFR 64.7(d)(1)]

Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]

27 [40 CFR 64.7(e)]

Carbon monoxide: Submit written notification: Due to the Office of Environmental Compliance, per Part 70 General Condition R upon identifying a failure to achieve compliance with the carbon monoxide, Total emission limitation for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]

28 [40 CFR 64.7(e)]

VOC, Total: Submit written notification: Due to the Office of Environmental Compliance, per Part 70 General Condition R upon identifying a failure to achieve compliance with the VOC, Total emission limitation for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]

29 [40 CFR 64.9(a)]

Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]

30 [40 CFR 64.9(b)(1)]

Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]

31 [40 CFR 64.9(b)(1)]

Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

32 [40 CFR 64.9(b)(1)]

Monitoring data recordkeeping by electronic or hard copy at the approved frequency. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

33 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal and rapping of precipitators or building of a new fire, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Month: All Year Statistical Basis: None specified

## SPECIFIC REQUIREMENTS

AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility

Activity Number: PER20070001

Permit Number: 2420-00027-V0

Air - Title V Regular Permit Initial

### CRG0001 EP-101 - EP-201 MHF Production Lines

34 [LAC 33:III.501.C.6]

35 [LAC 33:III.501.C.6]

36 [LAC 33:III.501.C.6]

37 [LAC 33:III.501.C.6]

38 [LAC 33:III.501.C.6]

39 [LAC 33:III.501.C.6]

40 [LAC 33:III.501.C.6]

41 [LAC 33:III.507.I]

42 [LAC 33:III.509]

43 [LAC 33:III.509]

44 [LAC 33:III.509]

45 [LAC 33:III.509]

46 [LAC 33:III.509]

47 [LAC 33:III.509]

48 [LAC 33:III.509]

49 [LAC 33:III.509]

Annual capacity factor Natural Gas Submit report: Due annually, by the 31st of March. Report the annual capacity factor of natural gas for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.

Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources, and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

For pollutants requiring a stack test, the result of the stack test will be the average value of the runs conducted for the test.

Natural Gas: Annual capacity factor recordkeeping by electronic or hard copy monthly. Keep records of the Natural Gas annual capacity factor each month, as well as the Natural Gas annual capacity factor for the last twelve months. Make records available for inspection by DEQ personnel.

Particulate matter (10 microns or less)  $\leq$  0.015 gr/dscf based on vendor guarantee.

Which Months: All Year Statistical Basis: Three-hour average

Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing.

Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services.

Per 40 CFR 60.6(f) and LAC 33:III.507.I, a permit shield has been determined for EQT-0001 and EQT-0002 with respect to LAC 33:III.Chapter 15. These sources are subject to the applicable requirements set forth in the PSD-LA-727 permit and NSPS, 40 CFR Part 60, Subpart Db in lieu of LAC 33:III.Chapter 15, including operations during startup, shutdown, and malfunction.

Afterburner design to incorporate a minimum of 0.75 seconds for nominal residence time.

Baghouses (including gaskets): Equipment/operational data monitored by technically sound method upon each occurrence of process unit shut down or whenever visible emission checks indicate maintenance may be necessary. Change elements as necessary. Determined as BACT.

Which Months: All Year Statistical Basis: None specified

Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of maintenance inspections on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

Baghouses: Visible emissions monitored by visual inspection/determination daily by casual observation (such as Method 22). If visible emissions are observed, restore operation of the baghouse to its normal or usual manner of operation as expeditiously as practicable, but at a minimum within three working days, in accordance with good air pollution control practices for minimizing emissions.

Baghouses: Visible emissions recordkeeping by electronic or hard copy daily. Keep records of visible emission checks on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

Carbon monoxide:  $\leq$  37.6 lb/hr, per production line. Which Months: All Year Statistical Basis: Three-hour average.

Maintain the NOx monitoring equipment at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment.

Nitrogen oxides:  $\leq$  77.3 lb/hr, per production line. Which Months: All Year Statistical Basis: Twelve-month rolling average.

**SPECIFIC REQUIREMENTS**

AIID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility

Activity Number: PER20070001

Permit Number: 2420-00027-V0

Air - Title V Regular Permit Initial

**CRG0001 EP-101 - EP-201 MHF Production Lines**

50 [LAC 33:III.509]

Operate NOx continuous monitoring systems and record data during all times that the pollutant-specific emissions unit is operating, except for, as

applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for data averages or calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system.

51 [LAC 33:III.509]  
52 [LAC 33:III.509]

Particulate matter (10 microns or less):  $\leq 48.3$  lb/hr, per production line. Which Months: All Year Statistical Basis: Three-hour average. Permittee shall employ a cyclone, an afterburner, spray dryer absorber technology, and a fabric filter baghouse to control emissions of particulate matter. Determined as BACT.

53 [LAC 33:III.509]

Permittee shall employ good combustion controls, low-NOx burners and selective non-catalytic reduction technology in order to control emissions of nitrogen oxides. Determined as BACT.

54 [LAC 33:III.509]

Permittee shall employ spray dryer absorber technology and a fabric filter baghouse in order to control emissions of sulfuric acid and sulfur dioxide. Determined as BACT.

55 [LAC 33:III.509]

Permittee shall fire only coal as feedstock and natural gas as fuel.

56 [LAC 33:III.509]

Permittee shall monitor and record the fuel firing rate of each fuel fired in this unit. Records shall be kept on-site for a period of no less than two (2) years and made available for inspection by LDEQ personnel.

57 [LAC 33:III.509]

Permittee shall utilize afterburners and good combustion practices to control emissions of carbon monoxide and volatile organic compounds. Determined as BACT.

58 [LAC 33:III.509]

Sulfur dioxide:  $\leq 101.2$  lb/hr, per production line. Which Months: All Year Statistical Basis: Thirty-day rolling average.

59 [LAC 33:III.509]

VOC, Total:  $\leq 35.9$  lb/hr, per production line. Which Months: All Year Statistical Basis: Three-hour average.

60 [LAC 33:III.5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Utilization of a cyclone, spray dryer absorber technology, and a fabric filter baghouse is determined as MACT.

**CRG0002 901-902-903 Coal Handling Equip**

Group Members: EQT0157 EQT0158 EQT0159

61 [40 CFR 60.252(c)]

Opacity  $\leq 20$  percent. Subpart Y. [40 CFR 60.252(c)]

62 [40 CFR 60.254(a)]

Which Months: All Year Statistical Basis: None specified

63 [40 CFR 60.254(b)]

Use as reference methods and procedures the test methods in 40 CFR 60 Appendix A or other methods and procedures as specified in 40 CFR 60.254 in conducting the performance tests required in 40 CFR 60.8, except as provided in 40 CFR 60.8(b). Subpart Y. [40 CFR 60.254(a)] Determine initial compliance with particulate matter standards in 40 CFR 60.252 using the test methods specified in 40 CFR 60.254(b)(1) and (b)(2). Subpart Y. [40 CFR 60.254(b)]

64 [LAC 33:III.1305]

Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.

65 [LAC 33:III.509]

Baghouses (including gaskets): Equipment/operational data monitored by technically sound method upon each occurrence of process unit shut down or whenever visible emission checks indicate maintenance may be necessary. Change elements as necessary. Determined as BACT. Which Months: All Year Statistical Basis: None specified

# **SPECIFIC REQUIREMENTS**

AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility

Activity Number: PER20070001

Permit Number: 2420-00027-V0

Air - Title V Regular Permit Initial

## **CRG0002 901-902-903 Coal Handling Equip**

66 [LAC 33-III.509]

Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of maintenance inspections on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Determined as BACT.

67 [LAC 33-III.509]

Filter vents: Visible emissions recordkeeping by electronic or hard copy daily. Keep records of visible emission checks on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

68 [LAC 33-III.509]

Particulate matter (10 microns or less)  $\geq$  99.9 % removal efficiency from filter manufacturer's certification. Determined as BACT.

69 [LAC 33-III.509]

Which Months: All Year Statistical Basis: None specified

Visible emissions: Filter Vents: Visible emissions monitored by visual inspection/determination daily by casual observation (such as Method 22). If visible emissions are observed, restore operation of the baghouse to its normal or usual manner of operation as expeditiously as practicable, but at a minimum within three working days, in accordance with good air pollution control practices for minimizing emissions.

## **CRG0003 Bin Vents-Receivers**

Group Members: EQT0014 EQT0036 EQT0037 EQT0038 EQT0039 EQT0040 EQT0041 EQT0042 EQT0043 EQT0044 EQT0045 EQT0046 EQT0047 EQT0048 EQT0049 EQT0050 EQT0051 EQT0052 EQT0053 EQT0054 EQT0055 EQT0056 EQT0057 EQT0058 EQT0059 EQT0060 EQT0061 EQT0062 EQT0063 EQT0064 EQT0065 EQT0066 EQT0067 EQT0068 EQT0069 EQT0070 EQT0071 EQT0072 EQT0073 EQT0074 EQT0075 EQT0076 EQT0077 EQT0078 EQT0079 EQT0080 EQT0081 EQT0082 EQT0083 EQT0084 EQT0085 EQT0086 EQT0087 EQT0088 EQT0089 EQT0090 EQT0091 EQT0092 EQT0093 EQT0094 EQT0096 EQT0097 EQT0098 EQT0099 EQT0100 EQT0101 EQT0102 EQT0103 EQT0104 EQT0105 EQT0106 EQT0107 EQT0108 EQT0109 EQT0110 EQT0111 EQT0112 EQT0113 EQT0114 EQT0115 EQT0116 EQT0117 EQT0118 EQT0119 EQT0120 EQT0121 EQT0122 EQT0123 EQT0124 EQT0125 EQT0126 EQT0127 EQT0128 EQT0129 EQT0130 EQT0131 EQT0132 EQT0134 EQT0135 EQT0136 EQT0137 EQT0138 EQT0139 EQT0140 EQT0141 EQT0142 EQT0143 EQT0144 EQT0145 EQT0146 EQT0147 EQT0148 EQT0149 EQT0150 EQT0151 EQT0152 EQT0153 EQT0154 EQT0155 EQT0156 EQT0160 EQT0161

70 [LAC 33-III.509]

Baghouses (including gaskets): Equipment/operational data monitored by technically sound method upon each occurrence of process unit shut down or whenever visible emission checks indicate maintenance may be necessary. Change elements as necessary.

71 [LAC 33-III.509]

Which Months: All Year Statistical Basis: None specified

Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of maintenance inspections on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

72 [LAC 33-III.509]

Filter vents: Visible emissions recordkeeping by electronic or hard copy daily. Keep records of visible emission checks on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

73 [LAC 33-III.509]

Particulate matter (10 microns or less)  $\geq$  99.9 % removal efficiency from filter manufacturer's certification. Determined as BACT.

74 [LAC 33-III.509]

Which Months: All Year Statistical Basis: None specified

Visible emissions: Filter Vents: Visible emissions monitored by visual inspection/determination daily by casual observation (such as Method 22). If visible emissions are observed, restore operation of the baghouse to its normal or usual manner of operation as expeditiously as practicable, but at a minimum within three working days, in accordance with good air pollution control practices for minimizing emissions.

## **EQT0162 EP-904 Emergency Fire Water Pump**

75 [40 CFR 60.4205(c)]

Carbon monoxide  $\leq$  2.6 g/BHP-hr (3.5 g/KW-hr). Subpart IIII. [40 CFR 60.4205(c)]

Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility

Activity Number: PER20070001

Permit Number: 2420-00027-V0

Air - Title V Regular Permit Initial

**EQ10162 EP-904 Emergency Fire Water Pump**

- 76 [40 CFR 60.4205(c)]  
 Non-methane hydrocarbons plus Nitrogen oxides  $\leq 7.8$  g/BHP-hr (10.5 g/KW-hr). Subpart III. [40 CFR 60.4205(c)]  
 Which Months: All Year Statistical Basis: None specified
- 77 [40 CFR 60.4205(c)]  
 Particulate matter (10 microns or less)  $\leq 0.40$  g/BHP-hr (0.54 g/KW-hr). Subpart III. [40 CFR 60.4205(c)]  
 Which Months: All Year Statistical Basis: None specified
- 78 [40 CFR 60.4207(b)]  
 Beginning October 1, 2010, use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. Subpart III. [40 CFR 60.4207(b)]
- 79 [40 CFR 60.4209(a)]  
 Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine. Subpart III. [40 CFR 60.4209(a)]
- 80 [40 CFR 60.4211(a)]  
 Which Months: All Year Statistical Basis: None specified
- 81 [40 CFR 60.4211(b)]  
 Operate and maintain the stationary CI internal combustion engine according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, only change those settings that are permitted by the manufacturer. Also meet the requirements of 40 CFR 89, 94 and/or 1068, as applicable. Subpart III. [40 CFR 60.4211(a)]
- If the fire pump engine is manufactured prior to model year 2009 and is required to comply with the emission standards specified in 40 CFR 60.4205(c), compliance must be demonstrated by one of the following methods:
- (1) Purchase an engine certified according to 40 CFR Part 89 or 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.
  - (2) Keep records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in Subpart III, and these methods must have been followed correctly.
  - (3) Keep records of engine manufacturer data indicating compliance with the standards.
  - (4) Conduct an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in 40 CFR 60.4212, as applicable. [40 CFR 60.4211(b)]
- If the fire pump engine is manufactured during or after model year 2009 and is required to comply with the emission standards specified in 40 CFR 60.4205(c), ensure engine is certified to the emission standards in 40 CFR 60.4204(b), or 40 CFR 60.4205(c) for the same model year and NFPA nameplate engine power. Install and configure according to the manufacturer's specifications. Subpart III. [40 CFR 60.4211(c)]
- 82 [40 CFR 60.4211(c)]  
 If a performance test is conducted under 40 CFR 60.4211(b), conduct performance tests according to 40 CFR 60.4212(a) through (d) as appropriate and applicable. Subpart III.
- 83 [40 CFR 60.4212]  
 If a performance test is conducted under 40 CFR 60.4211(b), determine compliance with the NOx mass per unit output emission limitation by converting the concentration of NOx in engine exhaust using 40 CFR 60.4213(e), Equation 7 as appropriate and applicable. Subpart III. [40 CFR 60.4213(e)]
- 84 [40 CFR 60.4213(e)]  
 If a performance test is conducted under 40 CFR 60.4211(b), determine compliance with the PM mass per unit output emission limitation by converting the concentration of PM in the engine exhaust using 40 CFR 60.4213(f), Equation 8. Subpart III. [40 CFR 60.4213(f)]
- 85 [40 CFR 60.4213(f)]  
 Equipment/operational data  $\leq 100$  hr/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the total hours operated, excluding emergency use, exceeds the maximum listed in this specific condition for any twelve consecutive month period.
- 86 [LAC 33:III.509]  
 Which Months: All Year Statistical Basis: None specified
- 87 [LAC 33:III.509]  
 Equipment/operational data monitored by technically sound method continuously.  
 Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility

Activity Number: PER20070001

Permit Number: 2420-00027-V0

Air - Title V Regular Permit Initial

**EQT0162 EP-904 Emergency Fire Water Pump**

88 [LAC 33-III.509]

Equipment/operational data recordkeeping by electronic or hard copy monthly. Keep records of the total hours operated, excluding emergency use, each month, as well as the total hours operated, excluding emergency use, for the last twelve months. Make records available for inspection by DEQ personnel.

89 [LAC 33-III.509]

Submit report: Due annually, by the 31st of March. Report the total hours operated, excluding emergency use, for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.

**FUG0001 FS-001 Plant Haul Roads**

90 [LAC 33-III.509]

Permittee shall pave all haul roads within the RREP facility. Permittee shall use best operating practices in order to control emissions of PM10. Determined as BACT.

**CRG0004 Cooling Towers**

Group Members: EQT0003 EQT0095

91 [LAC 33-III.509]

Permittee shall employ a drift elimination system with a design drift rate of 0.005% or better to control emissions of particulate matter. Determined as BACT.

**UNF0001 Entire Facility**

92 [40 CFR 60.]

All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.

93 [40 CFR 70.5(a)(1)(iii)]

Submit Title V permit application for renewal: Due 6 months before permit expiration date. [40 CFR 70.5(a)(1)(iii)]

94 [40 CFR 70.6(a)(3)(iii)(A)]

Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]

95 [40 CFR 70.6(a)(3)(iii)(B)]

Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. [40 CFR 70.6(a)(3)(iii)(B)]

96 [40 CFR 70.6(c)(5)(iv)]

Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]

97 [40 CFR 82.Subpart F]

Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.

AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility

### SPECIFIC REQUIREMENTS

Activity Number: PER20070001

Permit Number: 2420-00027-V0

Air - Title V Regular Permit Initial

#### UNF0001 Entire Facility

- 98 [LAC 33:III.1103]  
Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
- 99 [LAC 33:III.1303.B]  
Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- 100 [LAC 33:III.2113.A]  
Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- 101 [LAC 33:III.219]  
Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 102 [LAC 33:III.501.C.6]  
The annual production capability, which defines the operating rates at the facility, will be tracked daily and recorded on a rolling 365-day basis.
- 103 [LAC 33:III.509]  
Comply with the requirements of PSD-LA-727. This permit includes provisions of the Prevention of Significant Deterioration (PSD) review from Permit PSD-LA-727.
- 104 [LAC 33:III.5105.A.1]  
Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard.
- 105 [LAC 33:III.5105.A.2]  
Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109.
- 106 [LAC 33:III.5105.A.3]  
Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
- 107 [LAC 33:III.5105.A.4]  
Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A.
- 108 [LAC 33:III.5107.A.2]  
Submit Annual Emissions Report (TED). Due annually, by the 1st of July, to the Office of Environmental Assessment, Air Quality Assessment Division, in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.
- 109 [LAC 33:III.5107.A.3]  
Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations"
- 110 [LAC 33:III.5107.B.1]  
Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).



# SPECIFIC REQUIREMENTS

AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility

Activity Number: PER20070001

Permit Number: 2420-00027-V0

Air - Title V Regular Permit Initial

## UNF0001 Entire Facility

111 [LAC 33:III.5107.B.2]

Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923.

Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services, SPOC, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:III.3923.

Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii.

114 [LAC 33:III.5107.B.5]

Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.

115 [LAC 33:III.5109.B.3]

Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology.

116 [LAC 33:III.5109.B]

Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112, Table 51.2.

117 [LAC 33:III.5109.C]

Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III. Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department.

118 [LAC 33:III.5111.A.1]

Obtain a Louisiana Air Permit in accordance with LAC 33:III.5111.B and C and in accordance with LAC 33:III.1701, before commencement of the construction of any new source.

119 [LAC 33:III.5111.A.2.a]

Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source.

120 [LAC 33:III.5111.A]

Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified.

121 [LAC 33:III.5113.B.1]

Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel.

122 [LAC 33:III.5113.B.1]

Submit test results: Due in writing to the Office of Environmental Assessment, Environmental Technology Division within 45 days after completion of the test. Submit test results signed by the person responsible for the test.

**SPECIFIC REQUIREMENTS**

AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility

Activity Number: PER20070001

Permit Number: 2420-00027-V0

Air - Title V Regular Permit Initial

**UNF0001 Entire Facility**

- 123 [LAC 33:III.5113.B.2]
- 124 [LAC 33:III.5113.B.3]
- 125 [LAC 33:III.5113.B.4]
- 126 [LAC 33:III.5113.B.5]
- 127 [LAC 33:III.5113.B.5]
- 128 [LAC 33:III.5113.B.6]
- 129 [LAC 33:III.5113.B.7]
- 130 [LAC 33:III.5113.C.1]
- 131 [LAC 33:III.5113.C.2]
- 132 [LAC 33:III.5113.C.2]
- 133 [LAC 33:III.5113.C.2]
- 134 [LAC 33:III.5113.C.3]
- 135 [LAC 33:III.5113.C.5.a]
- 136 [LAC 33:III.5113.C.5.a]
- 137 [LAC 33:III.5113.C.5.d]
- 138 [LAC 33:III.5113.C.5.e]
- 139 [LAC 33:III.5113.C.5]

Conduct emission tests as set forth in accordance with Test Methods of 40 CFR, parts 60, 61, and 63 or in accordance with alternative test methods approved by DEQ.

Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department.

Provide emission testing facilities as specified in LAC 33:III.5113.B.4.a through e.

Analyze samples and determine emissions within 30 days after each emission test has been completed.

Submit certified letter: Due to the Office of Environmental Assessment, Air Quality Assessment Division, before the close of business on the 45th day following the completion of the emission test. Report the determinations of the emission test.

Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ.

Submit notification: Due to the Office of Environmental Assessment, Air Quality Assessment Division, at least 30 days before the emission test.

Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test.

Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence.

Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ.

Submit notification in writing: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system is to begin.

Submit performance evaluation report: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 60 days of the monitoring system performance evaluation.

Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems.

Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B.

Submit report: Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days.

Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS.

Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS.

Submit plan: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system.

**SPECIFIC REQUIREMENTS**

AI ID: 152139 - Red River Environmental Products LLC - Greenfield Activated Carbon Facility

Activity Number: PER20070001

Permit Number: 2420-00027-V0

Air - Title V Regular Permit Initial

**UNF0001 Entire Facility**

140 [LAC 33:III.5113.C.7]

141 [LAC 33:III.523.A]

142 [LAC 33:III.5611.A]

143 [LAC 33:III.5611.B]

144 [LAC 33:III.919.D]

Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ.

When the permittee is required to conduct a performance test to determine limitations or operating ranges, the permittee may request an Administrative Amendment or other permit modification, as appropriate, to incorporate the test results per LAC 33:III.523.A.

Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority.

During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations.

Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.